

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO

Chevron Phillips Chemical Company, LP

AUTHORIZING THE OPERATION OF

Chevron Phillips Chemical Cedar Bayou Plant
Normal Alpha & Polyalpha Olefin Units
Industrial Organic Chemicals

LOCATED AT

Harris County, Texas

Latitude 29° 49' 51" Longitude 94° 54' 46"

Regulated Entity Number: RN103919817

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O2114 Issuance Date: November 25, 2014

For the Commission

Table of Contents

| Section | Page |
|--|------|
| General Terms and Conditions | 1 |
| Special Terms and Conditions | 1 |
| Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting | 1 |
| Additional Monitoring Requirements | 14 |
| New Source Review Authorization Requirements | 15 |
| Compliance Requirements..... | 16 |
| Risk Management Plan | 18 |
| Protection of Stratospheric Ozone | 19 |
| Alternative Requirements | 19 |
| Permit Location..... | 19 |
| Permit Shield (30 TAC § 122.148) | 20 |
| Attachments | 21 |
| Applicable Requirements Summary | 22 |
| Additional Monitoring Requirements | 224 |
| Permit Shield..... | 239 |
| New Source Review Authorization References..... | 272 |
| Schedules..... | 286 |
| Alternative Requirement..... | 290 |
| Appendix A | 301 |
| Acronym List | 302 |
| Appendix B | 303 |
| Major NSR Summary Table | 304 |

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
- E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
- F. Emission units subject to 40 CFR Part 63, Subpart FFFF as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.890 which incorporates the 40 CFR Part 63 Subpart by reference.
- G. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.
- H. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 101.302 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
 - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
 - (v) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)

- (vi) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- I. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
 - (i) Title 30 TAC § 101.352 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.358 (relating to Emission Monitoring and Compliance Demonstration)
 - (vi) Title 30 TAC § 101.359 (relating to Reporting)
 - (vii) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
 - (viii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- J. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 101.372 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
 - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)
 - (v) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
 - (vi) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit

- K. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 6 (Highly Reactive Volatile Organic Compound Emissions Cap and Trade Program) requirements:
 - (i) Title 30 TAC § 101.393 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.394 (relating to Allocation of Allowances)
 - (iii) Title 30 TAC § 101.396 (relating to Allowance Deductions)
 - (iv) Title 30 TAC § 101.399 (relating to Allowance Banking and Trading)
 - (v) Title 30 TAC § 101.400 (relating to Reporting)
 - (vi) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)

3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:

- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum

required value does not constitute creation of an alternative fuel.

- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement.

However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible

emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- E. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:
 - A. Title 30 TAC § 115.142 (relating to Control Requirements)
 - B. Title 30 TAC § 115.142(1)(A) - (D) (relating to Control Requirements)
 - C. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
 - D. Title 30 TAC § 115.145 (relating to Approved Test Methods)
 - E. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
 - F. Title 30 TAC § 115.147(2) (relating to Exemptions), for streams with an annual VOC loading of 10 megagrams (11.03 tons) or less

- G. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
- 6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
 - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.221 (relating to Emission Specifications)
 - (ii) Title 30 TAC § 115.222 (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.223 (relating to Alternate Control Requirements)
 - (iv) Title 30 TAC § 115.224(1) and (2) (relating to Inspection Requirements)
 - (v) Title 30 TAC § 115.225(1) - (4) (relating to Testing Requirements)
 - (vi) Title 30 TAC § 115.226 (relating to Recordkeeping Requirements)
 - B. For filling of motor vehicle fuel tanks (Stage II) at motor vehicle fuel dispensing facilities constructed after May 16, 2012 as specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.241 (relating to Decommissioning of Stage II Vapor Recovery Equipment)
 - (ii) Title 30 TAC § 115.242 (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.243 (relating to Alternate Control Requirements)
 - (iv) Title 30 TAC § 115.244 (relating to Inspection Requirements)
 - (v) Title 30 TAC § 115.245 (relating to Testing Requirements)
 - (vi) Title 30 TAC § 115.246 (relating to Recordkeeping Requirements)
- 7. The permit holder shall comply with the following requirements of 30 TAC Chapter 115, Subchapter F, Division 3, Degassing of Storage Tanks, Transport Vessels and Marine Vessels:
 - A. For degassing of stationary VOC storage tanks, the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 115.541(a) - (c) (relating to Emission Specifications)

- (ii) Title 30 TAC § 115.541(f) (relating to Emission Specifications), for floating roof storage tanks
- (iii) Title 30 TAC § 115.542(a) and (a)(1), (a)(2), (a)(3) or (a)(4) (relating to Control Requirements). Where the requirements of 30 TAC Chapter 115, Subchapter F contain multiple compliance options, the permit holder shall keep records of when each compliance option was used.
- (iv) Title 30 TAC § 115.542(b) - (d), (relating to Control Requirements)
- (v) Title 30 TAC § 115.543 (relating to Alternate Control Requirements)
- (vi) Title 30 TAC § 115.544(a)(1) and (a)(2) (relating to Inspection, Monitoring, and Testing Requirements), for inspections
- (vii) Title 30 TAC § 115.544(b) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring
- (viii) Title 30 TAC § 115.544(b)(1) and (b)(2) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring of control devices
- (ix) Title 30 TAC § 115.544(b)(2)(A) - (J) (relating to Inspection, Monitoring, and Testing Requirements), for monitoring (as appropriate to the control device)
- (x) Title 30 TAC § 115.544(b)(3), (b)(4) and (b)(6) (relating to Inspection, Monitoring, and Testing Requirements), for VOC concentration or lower explosive limit threshold monitoring
- (xi) Title 30 TAC § 115.544(c), and (c)(1) - (c)(3) (relating to Inspection, Monitoring, and Testing Requirements), for testing of control devices used to comply with 30 TAC § 115.542(a)(1)
- (xii) Title 30 TAC § 115.545(1) - (7), (9) - (11) and (13) (relating to Approved Test Methods)
- (xiii) Title 30 TAC § 115.546(a), (a)(1) and (a)(3) (relating to Recordkeeping and Notification Requirements), for recordkeeping
- (xiv) Title 30 TAC § 115.546(a)(2) and (a)(2)(A) - (J) (relating to Recordkeeping and Notification Requirements), for recordkeeping (as appropriate to the control device)
- (xv) Title 30 TAC § 115.546(a)(4) (relating to Recordkeeping and Notification Requirements), for recordkeeping of testing of control devices used to comply with 30 TAC § 115.542(a)(1)

(xvi) Title 30 TAC § 115.546(b) (relating to Recordkeeping and Notification Requirements), for notification

(xvii) Title 30 TAC § 115.547(4) (relating to Exemptions)

8. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams having no potential to emit HRVOC.
9. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams from sources exempt under 30 TAC § 115.727(c)(3).
10. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
11. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
 - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)

- F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
12. For facilities where total annual benzene quantity from waste is greater than or equal to 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
- A. Title 40 CFR § 61.342(c)(1)(i) - (iii) (relating to Standards: General)
 - B. Title 40 CFR § 61.342(c)(2) (relating to Standards: General)
 - C. For exempting waste streams:
 - (i) Title 40 CFR § 61.342(c)(3)(ii)(A) - (C) (relating to Standards: General)
 - D. Title 40 CFR § 61.342(f)(1), and (2) (relating to Standards: General)
 - E. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - F. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - G. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions)
 - H. Title 40 CFR § 61.355(j) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - I. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - J. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - K. Title 40 CFR § 61.356(b)(2)(i) - (ii) (relating to Recordkeeping Requirements)
 - L. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - M. Title 40 CFR § 61.356(c) (relating to Recordkeeping Requirements)
 - N. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)

- O. Title 40 CFR § 61.357(d)(3) (relating to Reporting Requirements)
- 13. For facilities with containers subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
 - A. Title 40 CFR § 61.345(a)(1) - (3), (b), and (c) (relating to Standards: Containers)
 - B. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
 - C. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)
- 14. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 15. The waste gas discharged from the SYS-740 LRGO flare shall meet the minimum heat content of 845 BTU/scf with a sonic or less exit velocity. These conditions replace the specifications contained in 40 CFR 60, Section 60.18(c)(3) concerning required heat content and allowable velocity.

Additional Monitoring Requirements

- 16. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached “CAM Summary” upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the “CAM Summary,” deviations as defined by the deviation limit in the “CAM Summary.” Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular

instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

- D. The permit holder shall operate the monitoring, identified in the attached “CAM Summary,” in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall comply with either of the following requirements for any capture system associated with the VOC control device subject to CAM. If the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective actions:
 - (i) Once a year the permit holder shall inspect the capture system in compliance of CAM for leaks in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppm above background or as defined by the underlying applicable requirement; or
 - (ii) Once a month, the permit holder shall conduct a visual, audible, and/or olfactory inspection of the capture system in compliance of CAM to detect leaking components.
 - F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.
17. The permit holder shall comply with the periodic monitoring requirements as specified in the attached “Periodic Monitoring Summary” upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time specified in the “Periodic Monitoring Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

18. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special

permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

- A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
19. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
20. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
21. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
- A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
 - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
 - C. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

22. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from

monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.

23. The permit holder shall adhere to the provisions in the Compliance Schedule attachment of this permit and submit certified progress reports consistent with the schedule established under 30 TAC § 122.132(e)(4)(C) and including the information specified in 30 TAC § 122.142(e)(2). Those emission units listed in the Compliance Schedule attachment shall adhere with the requirements in the Compliance Schedule attachment until operating fully in compliance with the applicable requirements.
24. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
 - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
 - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
 - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
 - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).
 - C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
25. Use of Emission Credits to comply with applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)(2)

- (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)(2)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
- 26. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122

Risk Management Plan

- 27. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of

40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

28. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone.
- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.
 - B. The permit holder shall comply with 40 CFR Part 82, Subpart F related to the disposal requirements for appliances using Class I or Class II (ozone-depleting) substances or non-exempt substitutes as specified in 40 CFR §§ 82.150 - 82.166 and the applicable Part 82 Appendices.
 - C. The permit holder shall comply with 40 CFR Part 82, Subpart H related to Halon Emissions Reduction requirements as specified in 40 CFR § 82.250 - § 82.270 and the applicable Part 82 Appendices.

Alternative Requirements

29. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from (the EPA Administrator and/or TCEQ Executive Director), demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

30. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

31. A permit shield is granted for the emission units, groups, or processes specified in the attached “Permit Shield.” Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment “Permit Shield.” Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Schedules

Alternative Requirement

Applicable Requirements Summary

| | |
|---------------------------|-----------|
| Unit Summary | 23 |
|---------------------------|-----------|

| | |
|--|-----------|
| Applicable Requirements Summary | 60 |
|--|-----------|

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| 110 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | VOC Concentration/Emission Rate @ Max Operating Conditions = Either the VOC concentration or emission rate is greater than the applicable exemption limit at maximum actual operating conditions or the alternate recordkeeping requirements of 30 TAC § 115.126(4) are not being selected. |
| 110 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-02 | 30 TAC Chapter 115, Vent Gas Controls | Control Device Type = Flare, Control Device Id No. = Z-101 |
| 110 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-03 | 30 TAC Chapter 115, Vent Gas Controls | Control Device Type = Flare, Control Device Id No. = Z-251 |
| 120 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5720-1 | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 115-VENTBPV | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10, designed and operated in a batch mode. |
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., VOC Concentration/Emission Rate @ Max Operating Conditions = Either the VOC concentration or emission rate is greater than the applicable exemption limit at maximum actual operating conditions or the alternate recordkeeping requirements of 30 TAC § 115.126(4) are not being selected. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-02 | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Control Device Type = Flare, Control Device Id No. = Z-101 |
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-03 | 30 TAC Chapter 115, Vent Gas Controls | Vent Type = Vent gas stream originates from a synthetic organic chemical manufacturing industry reactor process or distillation operation, as defined in 30 TAC § 115.10., Control Device Type = Flare, Control Device Id No. = Z-251 |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|---------------------------------|--|
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-BPV | 40 CFR Part 63, Subpart FFFF | Comb Device = A combustion control device is being used., 95% Scrubber = The combustion device is not followed by a scrubber or is followed by a scrubber AND the 95% reduction efficiency requirement is not met., Perf Test = A performance test is not conducted., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Bypass Line = The closed vent system contains a bypass line that could divert the vent stream away from the control device. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| 129 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | 63FFFF-CPV | 40 CFR Part 63, Subpart FFFF | Emission Standard = The TRE index is not maintained above the threshold (5.0 for a new source and 1.9 for an existing source) and a flare is being used for control., Designated Grp1 = The emission stream is designated as Group 1., Designated Hal = The emission stream is not designated as halogenated., Determined Hal = The emission stream is determined to be non-halogenated., Prior Eval = The data from a prior evaluation or assessment is used., Negative Pressure = The closed vent system is operated and maintained at or above atmospheric pressure., Bypass Line = The closed vent system contains a bypass line that could divert the vent stream away from the control device. |
| 135 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| 136 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | VOC Concentration/Emission Rate @ Max Operating Conditions = Either the VOC concentration or emission rate is greater than the applicable exemption limit at maximum actual operating conditions or the alternate recordkeeping requirements of 30 TAC § 115.126(4) are not being selected. |
| 136 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-02 | 30 TAC Chapter 115, Vent Gas Controls | Control Device Type = Flare, Control Device Id No. = Z-101 |
| 136 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-03 | 30 TAC Chapter 115, Vent Gas Controls | Control Device Type = Flare, Control Device Id No. = Z-251 |
| 1795-60 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 1795-65 | LOADING/UNLOADIN G OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| 1798-22 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| 1798-23 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-01 | 30 TAC Chapter 115, Vent Gas Controls | No changing attributes. |
| C-2434A | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-04 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is greater than or equal to 612 ppmv. |
| C-2434A | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-05 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is less than 612 ppmv. |
| C-2434B | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-04 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is greater than or equal to 612 ppmv. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| C-2434B | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-05 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is less than 612 ppmv. |
| C4LOAD | LOADING/UNLOADIN G OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| D1353 | WASTEWATER UNITS | N/A | R5141-1 | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| D-201 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| D-353 | WASTEWATER UNITS | N/A | R5141-1 | 30 TAC Chapter 115, Industrial Wastewater | No changing attributes. |
| F-130 | FUGITIVE EMISSION UNITS | N/A | R5780-ALL | 30 TAC Chapter 115, HRVOC Fugitive Emissions | No changing attributes. |
| F-130 | FUGITIVE EMISSION UNITS | N/A | R5352-ALL | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |
| F-130 | FUGITIVE EMISSION UNITS | N/A | 60VV-03 | 40 CFR Part 60, Subpart VV | No changing attributes. |
| F-130 | FUGITIVE EMISSION UNITS | N/A | 60VV-ALL-01 | 40 CFR Part 60, Subpart VV | 60.482-2--PUMPS LIGHT LQD = COMPLYING WITH 40 CFR 60.482-2, 60.482-8--PUMPS HEAVY LQD = COMPLYING WITH 40 CFR 60.482-8, |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|------------|--|
| | | | | | 60.482-3--COMPRESSORS = COMPLYING WITH 40 CFR 60.482-3, 60.482-5--SAMPLING CONN = COMPLYING WITH 40 CFR 60.482-5, 60.482-6--OPEN VALVE/LINE = COMPLYING WITH 40 CFR 60.482-6, 60.482-7--VLVS G/V,LT LQD = COMPLYING WITH 40 CFR 60.482-7, 60.482-8--VALVES HVY LQD = COMPLYING WITH 40 CFR 60.482-8, 60.482-8-- FLANGES/CONNECT = COMPLYING WITH 40 CFR 60.482-8, COMPLY W/ §60.482-4(A)(B = YES, PRD HEAVY LIQ SERVICE = YES, EQUIVALENT EMISSION LIMIT = NO, COMPLY WITH § 60.482-8 = YES, PRD LIGHT LIQUID SERVICE = YES, EQUIVALENT EMISSION LIMIT = NO, COMPLY WITH § 60.482-8 = YES, NSPS VV VACUUM SERVICE = ANY EQUIPMENT IN VACUUM SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV PUMPS LT LQD SVC = PUMPS IN LIGHT |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|------------|---|
| | | | | | <p>LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV PUMPS HVY LQD SVC = PUMPS IN HEAVY LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV COMPRESSORS = COMPRESSORS IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV SAMPLING CONN SYS = SAMPLING CONNECTION SYSTEMS IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV OPEN VALVES/LINES = OPEN-ENDED VALVES OR LINES IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV PRD GAS/VAPOR SVC = PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-------------------------|--------------------------|---------------|----------------------------|---|
| | | | | | ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., FLANGES AND CONNECTORS = FLANGES OR CONNECTORS IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV VALVES G/V,LT LQD = VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VALVES HVY LQD SVC = VALVES IN HEAVY LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSP |
| F-130 | FUGITIVE EMISSION UNITS | N/A | 60VV-ALL-02 | 40 CFR Part 60, Subpart VV | 60.482-2--PUMPS LIGHT LQD = COMPLYING WITH 40 CFR 60.482-2, 60.482-8--PUMPS HEAVY LQD = COMPLYING WITH 40 CFR 60.482-8, 60.482-3--COMPRESSORS = COMPLYING WITH 40 CFR 60.482-3, 60.482-5--SAMPLING CONN = COMPLYING WITH 40 CFR 60.482-5, 60.482-6--OPEN VALVE/LINE = COMPLYING |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|------------|---|
| | | | | | <p>WITH 40 CFR 60.482-6, 60.482-7--VLVS G/V,LT LQD = COMPLYING WITH 40 CFR 60.482-7, 60.482-8--VALVES HVY LQD = COMPLYING WITH 40 CFR 60.482-8, 60.482-8-- FLANGES/CONNECT = COMPLYING WITH 40 CFR 60.482-8, COMPLY W/ §60.482-4(A)(B = YES, PRD HEAVY LIQ SERVICE = YES, EQUIVALENT EMISSION LIMIT = NO, COMPLY WITH § 60.482-8 = YES, PRD LIGHT LIQUID SERVICE = YES, EQUIVALENT EMISSION LIMIT = NO, COMPLY WITH § 60.482-8 = YES, NSPS VV VACUUM SERVICE = ANY EQUIPMENT IN VACUUM SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV PUMPS LT LQD SVC = PUMPS IN LIGHT LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV PUMPS HVY LQD SVC = PUMPS IN HEAVY LIQUID</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|------------|--|
| | | | | | SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV COMPRESSORS = COMPRESSORS IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV SAMPLING CONN SYS = SAMPLING CONNECTION SYSTEMS IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV OPEN VALVES/LINES = OPEN- ENDED VALVES OR LINES IN ANY SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV PRD GAS/VAPOR SVC = PRESSURE RELIEF DEVICES IN GAS/VAPOR SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., FLANGES AND CONNECTORS = FLANGES OR CONNECTORS IN ANY |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-------------------------|--------------------------|---------------|--|--|
| | | | | | SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VV VALVES G/V,LT LQD = VALVES IN GAS/VAPOR OR LIGHT LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSPS) SUBPART VV INCLUDED IN THE FUGITIVE UNIT., NSPS VALVES HVY LQD SVC = VALVES IN HEAVY LIQUID SERVICE ADDRESSED IN 40 CFR 60 (NSP |
| F-1795-66 | FUGITIVE EMISSION UNITS | N/A | R5352-ALL | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |
| F-1798-30 | FUGITIVE EMISSION UNITS | N/A | R5780-ALL | 30 TAC Chapter 115, HRVOC Fugitive Emissions | No changing attributes. |
| F-1798-30 | FUGITIVE EMISSION UNITS | N/A | R5352-ALL | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |
| F-1798-30 | FUGITIVE EMISSION UNITS | N/A | 60VV-01 | 40 CFR Part 60, Subpart VV | No changing attributes. |
| F-1798-30 | FUGITIVE EMISSION UNITS | N/A | 60VV-ALL | 40 CFR Part 60, Subpart VV | No changing attributes. |
| F-1891 | FUGITIVE EMISSION UNITS | N/A | R5780-ALL | 30 TAC Chapter 115, HRVOC Fugitive Emissions | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--|---|---------------|---|--|
| F-1891 | FUGITIVE EMISSION UNITS | N/A | R5352-ALL | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |
| F-1891 | FUGITIVE EMISSION UNITS | N/A | 63FFFF-01 | 40 CFR Part 63, Subpart FFFF | No changing attributes. |
| G-202A | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | R5131-01 | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| G-202B | VOLATILE ORGANIC COMPOUND WATER SEPARATORS | N/A | R5131-01 | 30 TAC Chapter 115, Water Separation | No changing attributes. |
| GRP1798R | REACTOR | R-1201, R-1202, R- 1203, R-1204, R- 1205, R-1206, R- 1207, R-1208, R- 1209, R-1210 | 60RRR-01 | 40 CFR Part 60, Subpart RRR | No changing attributes. |
| GRPDIST97 | DISTILLATION OPERATIONS | T-370, T-380, T- 381, T-400, T-410, T-411, T-420, T- 430, T-431, T-440, T-450, T-460, T- 470 | 60NNN-01 | 40 CFR Part 60, Subpart NNN | TOC REDUCTION = COMPLIANCE IS ACHIEVED THROUGH THE USE OF A FLARE OR RECOVERY DEVICE, SUBPART NNN CONTROL DEV = FLARE |
| GRPDIST97 | DISTILLATION OPERATIONS | T-370, T-380, T- 381, T-400, T-410, T-411, T-420, T- 430, T-431, T-440, T-450, T-460, T- 470 | 60NNN-02 | 40 CFR Part 60, Subpart NNN | TOC REDUCTION = COMPLIANCE IS ACHIEVED THROUGH THE USE OF A FLARE OR RECOVERY DEVICE, SUBPART NNN CONTROL DEV = FLARE |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------------------------|--|---------------|----------------------------------|---|
| GRPDIST97 | DISTILLATION OPERATIONS | T-370, T-380, T-381, T-400, T-410, T-411, T-420, T-430, T-431, T-440, T-450, T-460, T-470 | 60NNN-03 | 40 CFR Part 60, Subpart NNN | TOC REDUCTION = COMPLIANCE IS ACHIEVED THROUGH THE USE OF A NON-FLARE COMBUSTION DEVICE., SUBPART NNN CONTROL DEV = BOILER/PROCESS HEATER < 44 MW |
| GRPDIST98 | DISTILLATION OPERATIONS | T-1370, T-1380, T-1381, T-1400, T-1410, T-1420, T-1430, T-1440, T-1450, T-1460, T-1470, T-1480 | 60NNN-01 | 40 CFR Part 60, Subpart NNN | TOC REDUCTION = COMPLIANCE IS ACHIEVED THROUGH THE USE OF A FLARE OR RECOVERY DEVICE, SUBPART NNN CONTROL DEV = FLARE |
| GRPDIST98 | DISTILLATION OPERATIONS | T-1370, T-1380, T-1381, T-1400, T-1410, T-1420, T-1430, T-1440, T-1450, T-1460, T-1470, T-1480 | 60NNN-02 | 40 CFR Part 60, Subpart NNN | TOC REDUCTION = COMPLIANCE IS ACHIEVED THROUGH THE USE OF A NON-FLARE COMBUSTION DEVICE., SUBPART NNN CONTROL DEV = BOILER/PROCESS HEATER < 44 MW |
| H-101 | PROCESS HEATERS/FURNACES | N/A | R7310-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| H-101 | PROCESS HEATERS/FURNACES | N/A | 63DDDDD-01 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| H-1530 | PROCESS HEATERS/FURNACES | N/A | R7310-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------------------------|--------------------------|---------------|-------------------------------------|-------------------------|
| H-1530 | PROCESS HEATERS/FURNACES | N/A | 63DDDDD-01 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| H-3 | PROCESS HEATERS/FURNACES | N/A | R7ICI-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| H-3 | PROCESS HEATERS/FURNACES | N/A | 63DDDDD-01 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |
| H-530 | PROCESS HEATERS/FURNACES | N/A | R7310-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| H-530 | PROCESS HEATERS/FURNACES | N/A | 63DDDDD-01 | 40 CFR Part 63, Subpart DDDDD | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------------------|--------------------------|---------------|---------------------------------|---|
| HU-1891 | CHEMICAL MANUFACTURING PROCESS | N/A | 63FFFF-BATCH | 40 CFR Part 63, Subpart FFFF | Designated Grp1 = The emission stream is designated as Group 1., Vent Emission Control = Reduce uncontrolled organic HAP emissions from all batch process vents within the process by venting through a closed-vent system to a flare per Table 2.1.c., Designated HAL = The emission stream is not designated as halogenated., Determined HAL = The emission stream is determined not to be halogenated., Scrubber = No scrubber is used., Prior Eval = The data from a prior evaluation or assessment is used., Negative Pressure = The closed vent system is operated and maintained at atmospheric pressure., Bypass Line = The closed vent system contains a bypass line that could divert the vent stream away from the control device. |
| HU-1891 | CHEMICAL MANUFACTURING PROCESS | N/A | 63FFFF-PU | 40 CFR Part 63, Subpart FFFF | Ammonium Sulfate = The MCPU does not include the manufacture of ammonium sulfate as a by-product, or the slurry entering the by-product manufacturing process contains |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|------------|--|
| | | | | | <p>50 parts per million by weight (ppmw) HAP or less or 10 ppmw benzene or less., 63.100 CPMU = The MCPU is not a CPMU defined in § 63.100., New Source = The MCPU is an existing affected source., Batch Process Vents = The source includes batch process vents., G2/<1000 lb/yr = The process does not include Group 2 batch process vents and/or uncontrolled hydrogen halide and halogen HAP emissions from the sum of all batch and continuous process vents less than 1,000 lb/yr., HAP Metals = Uncontrolled emissions from process vents are less than 150 lb/yr of HAP metals., >1000 lb/yr = The process has uncontrolled hydrogen halide and halogen HAP emissions from process vents of less than 1,000 lb/yr., Other Operations = The MCPU includes operations other than those listed in § 63.2435(c)., Startup 2002 = The affected source initial startup was on or after April 4, 2002., Startup 2003 = The affected source startup was on or after</p> |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|--|
| | | | | | November 10, 2003., PUG = The MCPU is not part of a process unit group (PUG)., Cont Proc = The MCPU process is not continuous., Shared Batch Vent = The MCPU does not include a batch process vent that also is part of a CMPU as defined in subparts F and G of this part 63. |
| L128B | LOADING/UNLOADING OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | True Vapor Pressure = True vapor pressure less than 0.5 psia. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|---|
| L128B | LOADING/UNLOADING OPERATIONS | N/A | R5211-02 | 30 TAC Chapter 115, Loading and Unloading of VOC | True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(A) or 30 TAC § 115.217(b)(3)(A) exemption is not utilized., Chapter 115 Control Device Type = Vapor control system with a flare., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = Not all liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected. |
| L1798-40 | LOADING/UNLOADING OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | True Vapor Pressure = True vapor pressure less than 0.5 psia. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|------------------------------|--------------------------|---------------|--|---|
| L1798-40 | LOADING/UNLOADING OPERATIONS | N/A | R5211-02 | 30 TAC Chapter 115, Loading and Unloading of VOC | True Vapor Pressure = True vapor pressure greater than or equal to 0.5 psia., Daily Throughput = Daily throughput not determined since 30 TAC § 115.217(a)(2)(A) or 30 TAC § 115.217(b)(3)(A) exemption is not utilized., Chapter 115 Control Device Type = Vapor control system with a flare., Control Options = Vapor control system that maintains a control efficiency of at least 90%., Vapor Tight = All liquid and vapor lines are equipped with fittings which make vapor-tight connections that close automatically when disconnected. |
| LPAOWW | LOADING/UNLOADING OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| LWAX | LOADING/UNLOADING OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| M-107 | STORAGE TANKS/VESSELS | N/A | R5111-01 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is less than 1.0 psia |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|--|
| M-107 | STORAGE TANKS/VESSELS | N/A | R5111-02 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia |
| M-137 | STORAGE TANKS/VESSELS | N/A | R5111-01 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is less than 1.0 psia |
| M-137 | STORAGE TANKS/VESSELS | N/A | R5111-02 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia |
| M-138 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| M-144 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| M-145 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| P-142 | SRIC ENGINES | N/A | R7303-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| P-142 | SRIC ENGINES | N/A | 63ZZZZ-1 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| P-1576 | SRIC ENGINES | N/A | R7303-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| P-1576 | SRIC ENGINES | N/A | 60III-02 | 40 CFR Part 60, Subpart III | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------|--------------------------|---------------|--|--|
| P-1576 | SRIC ENGINES | N/A | 63ZZZZ-1 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| P-95A | SRIC ENGINES | N/A | R7303-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| P-95A | SRIC ENGINES | N/A | 63ZZZZ-1 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| P-95B | SRIC ENGINES | N/A | R7303-01 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| P-95B | SRIC ENGINES | N/A | 63ZZZZ-1 | 40 CFR Part 63, Subpart ZZZZ | No changing attributes. |
| SYS-740 | FLARES | N/A | R1111-01 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| SYS-740 | FLARES | N/A | R722-01 | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| SYS-740 | FLARES | N/A | 60A-01 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is less than 60 ft/s (18.3 m/sec) |
| SYS-740 | FLARES | N/A | 60A-02 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is less than or equal to 1000 Btu/scf (37.3 MJ/scm). |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|-------------------------------------|---|
| SYS-740 | FLARES | N/A | 60A-03 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm) |
| SYS910 | SRIC ENGINES | N/A | R730-07 | 30 TAC Chapter 117, Subchapter B | No changing attributes. |
| TK-1 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-10 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-101 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-102 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-103 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-11 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-14 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-15 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|-------------------------|
| TK-16 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-17 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1710A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1710B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-18 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1800 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1800 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-1806 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1806 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-1808 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1808 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-1810 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|-------------------------|
| TK-1812 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1814 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1816 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1818 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1820 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-1822 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-19 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-201 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-202 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-203 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-204 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-205 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|-------------------------|
| TK-206 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-207 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-208 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-22 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-23 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-24A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-24B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-25A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-25B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-27 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-28 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-2805 | STORAGE TANKS/VESSELS | N/A | 115TK-00100 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|--|
| TK-2805 | STORAGE TANKS/VESSELS | N/A | 60Kb-00429 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-2806 | STORAGE TANKS/VESSELS | N/A | 115TK-00100 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-2806 | STORAGE TANKS/VESSELS | N/A | 60Kb-00429 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-2808 | STORAGE TANKS/VESSELS | N/A | 115TK-00088 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-29 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-2A | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is less than 1.0 psia |
| TK-2A | STORAGE TANKS/VESSELS | N/A | R5112-02 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia |
| TK-30 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-32 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-33 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-34 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|-------------------------|
| TK-36 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-36 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-37 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-37 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-38 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-39 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-3A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-3B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-40 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-4A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-4B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-54 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|--|
| TK-55 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-56 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-5A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-5B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-60 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is less than 1.0 psia |
| TK-60 | STORAGE TANKS/VESSELS | N/A | R5112-02 | 30 TAC Chapter 115, Storage of VOCs | True Vapor Pressure = True vapor pressure is greater than or equal to 1.0 psia but less than 1.5 psia |
| TK-6A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-6B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-710A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-710B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-7A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|--------------------------|--------------------------|---------------|--|-------------------------|
| TK-7B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-800 | STORAGE TANKS/VESSELS | N/A | R5112-01 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-800 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-808 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-808 | STORAGE TANKS/VESSELS | N/A | 60KB-01 | 40 CFR Part 60, Subpart Kb | No changing attributes. |
| TK-812 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-814 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-820 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-822A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-830 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-840 | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-8A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---------------------------------|--------------------------|---------------|--|--|
| TK-8B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-9A | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| TK-9B | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| UGDIESEL | STORAGE TANKS/VESSELS | N/A | R5111 | 30 TAC Chapter 115, Storage of VOCs | No changing attributes. |
| UNLOAD | LOADING/UNLOADING OPERATIONS | N/A | R5211-01 | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| Z-101 | FLARES | N/A | R1111-01 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| Z-101 | FLARES | N/A | R722-01 | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| Z-101 | FLARES | N/A | 60A-01 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is less than 60 ft/s (18.3 m/sec) |
| Z-101 | FLARES | N/A | 60A-02 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is less than or equal to 1000 Btu/scf (37.3 MJ/scm). |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|---|---|
| Z-101 | FLARES | N/A | 60A-03 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm) |
| Z-104 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5760 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| Z-1101 | FLARES | N/A | R1111-01 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| Z-1101 | FLARES | N/A | R722-01 | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| Z-1101 | FLARES | N/A | 60A-01 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is less than 60 ft/s (18.3 m/sec) |
| Z-1101 | FLARES | N/A | 60A-02 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is less than or equal to 1000 Btu/scf (37.3 MJ/scm). |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|---|---|
| Z-1101 | FLARES | N/A | 60A-03 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm) |
| Z-1104 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5760 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| Z-201 | INDUSTRIAL PROCESS COOLING TOWERS | N/A | R5760 | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| Z-2437 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5722-01 | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| Z-2437 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-04 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is greater than 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is less than 408 ppmv. |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|---|--------------------------|---------------|--|--|
| Z-2437 | EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS | N/A | R5121-05 | 30 TAC Chapter 115, Vent Gas Controls | Combined 24-Hour VOC Weight = Combined VOC weight is less than or equal to 100 pounds (45.4 kg)., VOC Concentration = VOC concentration is greater than or equal to 408 ppmv. |
| Z-251 | FLARES | N/A | R1111-01 | 30 TAC Chapter 111, Visible Emissions | No changing attributes. |
| Z-251 | FLARES | N/A | 115-FLARE027 | 30 TAC Chapter 115, HRVOC Vent Gas | No changing attributes. |
| Z-251 | FLARES | N/A | 60A-01 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is less than 60 ft/s (18.3 m/sec) |
| Z-251 | FLARES | N/A | 60A-02 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is less than or equal to 1000 Btu/scf (37.3 MJ/scm). |
| Z-251 | FLARES | N/A | 60A-03 | 40 CFR Part 60, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm) |

Unit Summary

| Unit/Group/ Process ID No. | Unit Type | Group/Inclusive Units | SOP Index No. | Regulation | Requirement Driver |
|-------------------------------|-----------|--------------------------|---------------|---------------------------|---|
| Z-251 | FLARES | N/A | 63A-01 | 40 CFR Part 63, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is less than 60 ft/s (18.3 m/sec) |
| Z-251 | FLARES | N/A | 63A-02 | 40 CFR Part 63, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is less than or equal to 1000 Btu/scf (37.3 MJ/scm). |
| Z-251 | FLARES | N/A | 63A-03 | 40 CFR Part 63, Subpart A | FLARE EXIT VELOCITY = Flare exit velocity is greater than or equal to 60 ft/s (18.3 m/sec) but less than 400 ft/s (122 m/sec)., HEATING VALUE OF GAS = Heating value is greater than 1000 Btu/scf (37.3 MJ/scm). |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| 110 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 110 | EP | R5121-02 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 110 | EP | R5121-03 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 120 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(B) | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|--|---|---|--|---|
| 129 | EP | R5720-1 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(c)(1) § 115.722(c)(3) § 115.722(d) § 115.722(d)(1) § 115.722(d)(2) | HRVOC emissions at each site located in Harris County that is subject to this division or Division 2 of this subchapter must not exceed 1,200 pounds of HRVOC per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination. | § 115.725(n) | § 115.726(d)(1) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) [G]§ 115.726(g) [G]§ 115.726(h) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(n) |
| 129 | EP | 115-VENTBPV | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(4)(A) [G]§ 115.122(a)(4) § 115.127(a)(4) | Any SOCM reactor process or distillation operation that is designed and operated in a batch mode is exempt from the requirements of §115.121(a)(2)(A) of this title. | None | None | None |
| 129 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 129 | EP | R5121-02 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|--|--|
| 129 | EP | R5121-03 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 129 | EP | 63FFFF-BPV | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2505(a)(1) § 63.2505 § 63.2505(a)(1)(i) § 63.2505(a)(1)(i)(A) § 63.2505(a)(1)(i)(B) § 63.2505(a)(2) § 63.2505(b) § 63.2505(b)(1) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) | You must route vent streams through a closed-vent system to a control device that reduces HAP emissions as specified in either §63.2505(a)(1)(i) or (ii). | § 63.2505(b) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) | § 63.2505(b) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) [G]§ 63.998(d)(1) | § 63.2505(b) § 63.2505(b)(5) [G]§ 63.999(c)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|---|---|---|--|
| 129 | EP | 63FFFF-CPV | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2455(a)-Table 1.1.a.ii § 63.11(b) § 63.2450(b) § 63.2455(a) § 63.2455(b) § 63.2455(b)(1) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3) | For each Group 1 continuous process vent, the owner or operator must reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare. | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) [G]§ 63.999(c)(2) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |
| 135 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(B) | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| 136 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|---|--|---|
| 136 | EP | R5121-02 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 136 | EP | R5121-03 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 1795-60 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(B) | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See Periodic Monitoring Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| 1795-65 | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| 1798-22 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(A) § 60.18 | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(B) § 115.126(2) § 115.126(7) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(B) § 115.126(2) | None |
| 1798-23 | EP | R5121-01 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.121(a)(2) § 115.122(a)(2) § 115.122(a)(2)(B) | No person may allow a vent gas stream to be emitted from the processes specified in §115.121(a)(2)(A)-(E), unless the vent gas stream is controlled properly in accordance with §115.122(a)(2). | [G]§ 115.125 § 115.126(1) § 115.126(1)(C) § 115.126(2) ** See CAM Summary | § 115.126 § 115.126(1) § 115.126(1)(C) § 115.126(2) | None |
| C-2434A | EP | R5121-04 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2) | A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| C-2434A | EP | R5121-05 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2) | A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|--|---|
| C-2434B | EP | R5121-04 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(2)(A) [G]§ 115.122(a)(4) § 115.127(a)(2) | A vent gas stream having a combined weight of volatile organic compounds (VOC) < 100 lbs (45.4 kg) in any continuous 24-hour period is exempt from the requirements of § 115.121(a)(1). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| C-2434B | EP | R5121-05 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(2)(B) [G]§ 115.122(a)(4) § 115.127(a)(2) | A vent gas stream specified in § 115.121(a)(1) of this title with a concentration of VOC < 612 ppmv is exempt from § 115.121(a)(1). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| C4LOAD | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(3) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Liquefied petroleum gas. All loading and unloading of liquefied petroleum gas is exempt from the requirements of this division, except for the specified requirements. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) | § 115.216 § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| D1353 | EU | R5141-1 | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---|--|---|--|--|--|
| D-201 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| D-353 | EU | R5141-1 | VOC | 30 TAC Chapter 115, Industrial Wastewater | § 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148 § 60.18(b) | The wastewater component shall meet the specified control requirements. | [G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(E) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 | [G]§ 115.142(1)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|-------------------------------------|---|---|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.784(a) § 115.780(b) § 115.910 | The executive director may approve alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division (relating to Fugitive Emissions) in accordance with §115.910 of this title (relating to Availability of Alternate Means of Control) if emission reductions are demonstrated to be substantially equivalent. | § 115.784(b) | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii) | Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|--|---|---|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

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|---------------------------|-------------------------|---------------|---------------------|--|---|--|---|--|---|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

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|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|---|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) | Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) | Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) | Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|---|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3) | § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g) | [G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|---|--|--|
| F-130 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii)) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|--|--|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(6) | Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(5) | Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10) | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|--|--|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11) | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13) | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2) § 115.352(9) | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C). | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|--|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.353(a) § 115.353(b) § 115.910 | For all affected persons in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, and Houston-Galveston areas, as defined in §115.10, any alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division may be approved by the executive director in accordance with §115.910 if emission reductions are demonstrated to be substantially equivalent. | None | None | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|---|---|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|--|--|
| F-130 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h) | No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) | § 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) | [G]§ 115.358(g) |
| F-130 | EU | 60VV-03 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-10(d) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(e) § 60.482-10(m) | Flares used to comply with this subpart shall comply with the requirements of §60.18. | § 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) | [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-1(d) | Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5). | None | § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-2 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pumps in light liquid service shall comply with the requirements outlined in § 60.482-2(a)-(f). | [G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-10(d) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(e) § 60.482-10(m) | Flares used to comply with this subpart shall comply with the requirements of §60.18. | § 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) | [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-3 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Compressors shall comply with the requirements outlined in § 60.482-3(a)-(j). | [G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-6 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Open-ended valves or lines shall comply with the requirements outlined in § 60.482-6(a)-(c). | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|--|---|
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-7 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 | Valves in gas/vapor service and in light liquid service shall comply with the requirements outlined in § 60.482-7(a)-(h). | [G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(b)(1) § 60.482-4(b)(2) § 60.482-4(d)(1) § 60.482-4(d)(2) [G]§ 60.482-9 | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background. | § 60.482-4(b)(1) § 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pumps in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pressure relief devices in light-liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pressure relief devices in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Flanges and other connectors shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Valves in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-01 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-5 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Sampling connection systems shall be in compliance with the requirements outlined in § 60.482-5(a)-(c). | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-1(d) | Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5). | None | § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-2 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pumps in light liquid service shall comply with the requirements outlined in § 60.482-2(a)-(f). | [G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-10(d) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(e) § 60.482-10(m) | Flares used to comply with this subpart shall comply with the requirements of §60.18. | § 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) | [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-3 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Compressors shall comply with the requirements outlined in § 60.482-3(a)-(j). | [G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-6 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Open-ended valves or lines shall comply with the requirements outlined in § 60.482-6(a)-(c). | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|--|---|
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-7 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 | Valves in gas/vapor service and in light liquid service shall comply with the requirements outlined in § 60.482-7(a)-(h). | [G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(b)(1) § 60.482-4(b)(2) § 60.482-4(d)(1) § 60.482-4(d)(2) [G]§ 60.482-9 | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background. | § 60.482-4(b)(1) § 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pumps in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pressure relief devices in light-liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pressure relief devices in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Flanges and other connectors shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Valves in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-130 | EU | 60VV-ALL-02 | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-5 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Sampling connection systems shall be in compliance with the requirements outlined in § 60.482-5(a)-(c). | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|---|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(6) | Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(5) | Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10) | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|--|--|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11) | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13) | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2) § 115.352(9) | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C). | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.353(a) § 115.353(b) § 115.910 | For all affected persons in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, and Houston-Galveston areas, as defined in §115.10, any alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division may be approved by the executive director in accordance with §115.910 if emission reductions are demonstrated to be substantially equivalent. | None | None | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|--|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|---|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|--|--|
| F-1795-66 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h) | No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) | § 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) | [G]§ 115.358(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|-------------------------------------|---|---|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.784(a) § 115.780(b) § 115.910 | The executive director may approve alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division (relating to Fugitive Emissions) in accordance with §115.910 of this title (relating to Availability of Alternate Means of Control) if emission reductions are demonstrated to be substantially equivalent. | § 115.784(b) | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|---|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii) | Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|--|---|---|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii)) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|---|--|---|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|---|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|--|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) | Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) | Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) | Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|---|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3) | § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g) | [G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-1798-30 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|--|--|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(6) | Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(5) | Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10) | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|--|--|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11) | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13) | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2) § 115.352(9) | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C). | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.353(a) § 115.353(b) § 115.910 | For all affected persons in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, and Houston-Galveston areas, as defined in §115.10, any alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division may be approved by the executive director in accordance with §115.910 if emission reductions are demonstrated to be substantially equivalent. | None | None | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|--|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|---|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|--|--|
| F-1798-30 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h) | No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) | § 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) | [G]§ 115.358(g) |
| F-1798-30 | EU | 60VV-01 | VOC | 40 CFR Part 60, Subpart VV | § 60.482-10(d) § 60.18 § 60.482-1(a) § 60.482-1(b) § 60.482-10(e) § 60.482-10(m) | Flares used to comply with this subpart shall comply with the requirements of §60.18. | § 60.485(a) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) [G]§ 60.485(g) | [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-1(d) | Equipment that is in vacuum service is excluded from the requirements of §60.482-2 to §60.482-10, if it is identified as required in §60.486(e)(5). | None | § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|---|---|--|---|
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-2 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pumps in light liquid service shall comply with the requirements outlined in § 60.482-2(a)-(f). | [G]§ 60.482-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-3 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Compressors shall comply with the requirements outlined in § 60.482-3(a)-(j). | [G]§ 60.482-3 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-6 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Open-ended valves or lines shall comply with the requirements outlined in § 60.482-6(a)-(c). | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-7 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 [G]§ 60.483-1 [G]§ 60.483-2 | Valves in gas/vapor service and in light liquid service shall comply with the requirements outlined in § 60.482-7(a)-(h). | [G]§ 60.482-7 [G]§ 60.483-1 [G]§ 60.483-2 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(g) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(d) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|--|---|--|
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | § 60.482-4(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(b)(1) § 60.482-4(b)(2) § 60.482-4(d)(1) § 60.482-4(d)(2) [G]§ 60.482-9 | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background. | § 60.482-4(b)(1) § 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pumps in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pressure relief devices in light-liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) [G]§ 60.485(e) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Pressure relief devices in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Flanges and other connectors shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|--|
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-8 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Valves in heavy liquid service shall comply with the requirements of §60.482-8(a)-(d). | [G]§ 60.482-8 § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |
| F-1798-30 | EU | 60VV-ALL | VOC | 40 CFR Part 60, Subpart VV | [G]§ 60.482-5 § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-9 | Sampling connection systems shall be in compliance with the requirements outlined in § 60.482-5(a)-(c). | § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(d) § 60.485(f) | [G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j) | § 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All compressors that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|-------------------------------------|---|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d) § 115.780(b) [G]§ 115.781(a) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) § 115.787(g) | All agitators that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|-------------------------------------|---|---|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.784(a) § 115.780(b) § 115.910 | The executive director may approve alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division (relating to Fugitive Emissions) in accordance with §115.910 of this title (relating to Availability of Alternate Means of Control) if emission reductions are demonstrated to be substantially equivalent. | § 115.784(b) | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.783(4)(A)(i) § 115.783(4)(A)(ii) § 115.783(4)(A)(ii)(I) § 115.783(4)(A)(ii)(II) § 115.783(4)(B) § 115.783(4)(B)(i) § 115.783(4)(B)(ii) | Process drains within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(5) § 115.781(b)(6) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|--|---|---|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.787(e) § 115.787(f) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(b)(8) § 115.781(e) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|---|--|---|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) [G]§ 115.781(d) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(1) § 115.783(1)(A) § 115.783(1)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) [G]§ 115.781(d) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.786(a)(1) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) § 115.786(a)(1) § 115.786(a)(2) § 115.786(a)(2)(A) § 115.786(a)(2)(B) § 115.786(b)(1) § 115.786(b)(2) § 115.786(b)(2)(A) § 115.786(b)(2)(B) § 115.786(b)(2)(C) [G]§ 115.786(b)(3) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

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|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|---|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) | Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) § 115.787(b)(1) | Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) § 115.782(c)(1)(C)(i) § 115.782(c)(1)(C)(i)(I) § 115.782(c)(1)(C)(i)(II) § 115.782(c)(1)(C)(i)(III) § 115.782(c)(1)(C)(ii) § 115.783(3) [G]§ 115.783(3)(A) [G]§ 115.783(3)(B) § 115.787(b) | Agitators within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(c)(1) § 115.781(c)(2) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) § 115.783(3)(C) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents, and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) | [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|---|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.358(c)(1) [G]§ 115.358(h) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(2) § 115.782(b)(3) § 115.782(c)(1) § 115.782(c)(1)(A) § 115.782(c)(1)(B) [G]§ 115.782(c)(1)(B)(i) § 115.782(c)(1)(B)(ii) [G]§ 115.782(c)(1)(B)(iii) § 115.782(c)(1)(B)(iv) | Components within the process unit or processes listed in §115.780(a) is subject to the requirements of this division. If the owner of operator elects to use the alternative work practice in §115.358 of this title, a leak is defined as specified in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) § 115.781(b) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(h)(1) § 115.781(h)(2) § 115.781(h)(3) § 115.781(h)(4) § 115.781(h)(5) [G]§ 115.781(h)(6) § 115.782(b)(4) § 115.782(d)(1) § 115.788(h)(1) [G]§ 115.788(h)(2) § 115.788(h)(3) | § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(1) § 115.786(d)(2) § 115.786(d)(2)(A) § 115.786(d)(2)(B) § 115.786(d)(2)(C) § 115.786(e) [G]§ 115.786(f) § 115.786(g) | [G]§ 115.358(g) [G]§ 115.782(c)(1)(B)(i) [G]§ 115.786(c) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|--|
| F-1891 | EU | R5780-ALL | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9) § 115.780(b) [G]§ 115.781(a) § 115.781(g)(3) § 115.782(a) § 115.782(b)(1) § 115.782(b)(2) § 115.782(c)(2) § 115.782(c)(2)(A) § 115.782(c)(2)(A)(i) § 115.782(c)(2)(A)(ii) § 115.782(c)(2)(B) § 115.783(5) § 115.787(f) § 115.787(f)(2) § 115.787(f)(3) § 115.787(f)(4) § 115.787(g) § 115.788(a) § 115.788(a)(1) § 115.788(a)(2) § 115.788(a)(2)(A) § 115.788(a)(2)(B) § 115.788(a)(2)(C) § 115.788(a)(2)(C)(i) § 115.788(a)(2)(C)(ii) § 115.788(a)(2)(C)(iii) § 115.788(a)(2)(D) § 115.788(a)(3) § 115.788(a)(3)(A) § 115.788(a)(3)(B) [G]§ 115.788(g) | Open-ended valves or lines within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) § 115.781(b) § 115.781(b)(10) § 115.781(b)(3) § 115.781(b)(4) § 115.781(b)(7) § 115.781(b)(7)(A) § 115.781(b)(7)(B) § 115.781(f) § 115.781(f)(1) § 115.781(f)(2) § 115.781(f)(3) § 115.781(f)(4) § 115.781(f)(5) § 115.781(f)(6) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.782(d)(2) § 115.789(1)(B) | § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) § 115.781(b)(10) § 115.781(g) § 115.781(g)(1) § 115.781(g)(2) § 115.781(g)(3) § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.786(d) § 115.786(d)(2) § 115.786(d)(2)(C) § 115.786(e) § 115.786(g) [G]§ 115.788(g) | § 115.782(c)(2)(A)(ii) [G]§ 115.786(c) § 115.788(c) [G]§ 115.788(d) § 115.788(e) [G]§ 115.788(g) § 115.789(1)(B) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|-------------------------------------|--|--|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(6) | Components at a petroleum refinery or synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process, that contact a process fluid that contains less than 10% VOC by weight and components at a natural gas/gasoline processing operation that contact a process fluid that contains less than 1.0% VOC by weight are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(5) | Reciprocating compressors and positive displacement pumps used in natural gas/gasoline processing operations are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10) | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|--|--|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11) | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13) | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this title. | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2) § 115.352(9) | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C). | None | § 115.356 § 115.356(3) [G]§ 115.356(3)(C) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.353(a) § 115.353(b) § 115.910 | For all affected persons in the Beaumont-Port Arthur, Dallas-Fort Worth, El Paso, and Houston-Galveston areas, as defined in §115.10, any alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this division may be approved by the executive director in accordance with §115.910 if emission reductions are demonstrated to be substantially equivalent. | None | None | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) § 115.357(1) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(7) | No process drains shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(1) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(9) § 115.357(12) § 115.357(8) § 115.357(9) | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(4) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No open-ended valves or lines shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|--|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(1) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.357(12) § 115.357(8) § 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) [G]§ 115.354(7) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | [G]§ 115.354(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(1) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(3) § 115.352(5) § 115.352(7) § 115.352(8) § 115.357(12) § 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(11) § 115.354(3) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|--|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(1) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(7) § 115.357(12) § 115.357(8) | No agitators shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|---|---|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(3) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(4) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355 | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|--|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(1) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 § 115.357(1) | § 115.352(7) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) [G]§ 115.356(3)(C) § 115.356(5) | None |
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(5) § 115.352(7) § 115.357(12) § 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dropping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1) § 115.354(10) § 115.354(2) § 115.354(5) § 115.354(6) § 115.354(9) [G]§ 115.355 | § 115.352(7) § 115.354(10) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) § 115.356(5) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|--|--|---|---|--|---|
| F-1891 | EU | R5352-ALL | VOC | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(C) § 115.352(1) § 115.352(10) § 115.352(2) § 115.352(2)(A) § 115.352(2)(B) § 115.352(2)(C) § 115.352(2)(C)(i) § 115.352(2)(C)(ii) § 115.352(2)(C)(iii) § 115.352(3) § 115.352(4) § 115.352(5) § 115.352(6) § 115.352(7) § 115.352(8) § 115.357(8) § 115.358(c)(1) [G]§ 115.358(h) | No component shall be allowed to have a VOC leak, for more than 15 days, after discovery. If the owner or operator elects to use the alternative work practice in §115.358 of this title, any leak detected as defined in §115.358 of this title, including any leak detected using the alternative work practice on a component that is subject to the requirements of this division but not specifically selected for alternative work practice monitoring. | § 115.354(1) § 115.354(11) § 115.354(13)(A) § 115.354(13)(B) § 115.354(13)(C) § 115.354(13)(D) § 115.354(13)(E) § 115.354(13)(F) § 115.354(4) § 115.354(5) § 115.354(9) [G]§ 115.355 § 115.358(c)(2) § 115.358(d) [G]§ 115.358(e) § 115.358(f) | § 115.352(7) § 115.354(13)(D) § 115.354(13)(E) § 115.356 [G]§ 115.356(1) [G]§ 115.356(2) § 115.356(3) § 115.356(3)(A) § 115.356(3)(B) [G]§ 115.356(3)(C) [G]§ 115.356(4) § 115.356(5) | [G]§ 115.358(g) |
| F-1891 | EU | 63FFFF-01 | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2480(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart FFFF | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart FFFF |
| G-202A | EU | R5131-01 | VOC | 30 TAC Chapter 115, Water Separation | § 115.132(a)(3) § 115.131(a) | VOC water separator compartments must be equipped with a vapor recovery system which satisfies the provisions of §115.131(a) of this title. | [G]§ 115.135(a) § 115.136(a)(2) § 115.136(a)(2)(C) § 115.136(a)(3) § 115.136(a)(4) | § 115.136(a)(2) § 115.136(a)(2)(C) § 115.136(a)(3) § 115.136(a)(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|--|--|
| G-202B | EU | R5131-01 | VOC | 30 TAC Chapter 115, Water Separation | § 115.132(a)(3) § 115.131(a) | VOC water separator compartments must be equipped with a vapor recovery system which satisfies the provisions of §115.131(a) of this title. | [G]§ 115.135(a) § 115.136(a)(2) § 115.136(a)(2)(C) § 115.136(a)(3) § 115.136(a)(4) | § 115.136(a)(2) § 115.136(a)(2)(C) § 115.136(a)(3) § 115.136(a)(4) | None |
| GRP1798R | EP | 60RRR-01 | VOC/TOC | 40 CFR Part 60, Subpart RRR | § 60.700(c)(5) | Vent streams routed to distillation units subject to subpart NNN with no other air releases except for a pressure relief valve, are exempt from all provisions of this subpart except for §60.705(r). | None | None | § 60.705(r) |
| GRPDIST97 | EP | 60NNN-01 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(b) § 60.18 | Each affected facility shall combust the emissions in a flare that meets the requirements of § 60.18. | § 60.663(b) § 60.663(b)(1) § 60.664(a) § 60.664(d) [G]§ 60.664(e) § 60.703(b)(2) § 60.703(b)(2)(i) § 60.703(b)(2)(ii) *See Alternate Requirement | § 60.665(b) § 60.665(b)(3) § 60.665(f) § 60.703(d)(1) § 60.703(d)(2) | § 60.665(a) § 60.665(b) § 60.665(b)(3) § 60.665(k) § 60.665(l) § 60.665(l)(2) § 60.665(l)(4) § 60.705(l)(2) § 60.705(l)(7) |
| GRPDIST97 | EP | 60NNN-02 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(b) § 60.18 | Each affected facility shall combust the emissions in a flare that meets the requirements of § 60.18. | § 60.663(b) § 60.663(b)(1) § 60.664(a) § 60.664(d) [G]§ 60.664(e) § 60.703(b)(2) § 60.703(b)(2)(i) § 60.703(b)(2)(ii) *See Alternate Requirement | § 60.665(b) § 60.665(b)(3) § 60.665(f) § 60.703(d)(1) § 60.703(d)(2) | § 60.665(a) § 60.665(b) § 60.665(b)(3) § 60.665(k) § 60.665(l) § 60.665(l)(2) § 60.665(l)(4) § 60.703(l)(2) § 60.703(l)(7) |

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| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|--|
| GRPDIST97 | EP | 60NNN-03 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c) § 60.663(c)(2) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(c)(1) § 60.703(c)(1)(i) § 60.703(c)(1)(ii) *See Alternate Requirement | § 60.663(c)(2) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(b)(2)(ii) § 60.665(c) § 60.665(c)(3) § 60.665(c)(4) § 60.703(c)(1) § 60.703(c)(1)(i) § 60.703(d)(1) § 60.703(d)(2) | § 60.665(a) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(b)(2)(ii) § 60.665(c) § 60.665(c)(3) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.705(l)(2) § 60.705(l)(7) |
| GRPDIST98 | EP | 60NNN-01 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(b) § 60.18 | Each affected facility shall combust the emissions in a flare that meets the requirements of § 60.18. | § 60.663(b) § 60.663(b)(1) § 60.664(a) § 60.664(d) [G]§ 60.664(e) § 60.703(b)(2) § 60.703(b)(2)(i) § 60.703(b)(2)(ii) *See Alternate Requirement | § 60.665(b) § 60.665(b)(3) § 60.665(f) § 60.705(d)(1) § 60.705(d)(2) | § 60.665(a) § 60.665(b) § 60.665(b)(3) § 60.665(k) § 60.665(l) § 60.665(l)(2) § 60.665(l)(4) § 60.705(l)(2) § 60.705(l)(7) |
| GRPDIST98 | EP | 60NNN-02 | VOC/TOC | 40 CFR Part 60, Subpart NNN | § 60.662(a) | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c) § 60.663(c)(2) § 60.664(a) § 60.664(b) § 60.664(b)(1) § 60.664(b)(2) § 60.664(b)(3) [G]§ 60.664(b)(4) § 60.703(c)(1) § 60.703(c)(1)(i) § 60.703(c)(1)(ii) *See Alternate Requirement | § 60.663(c)(2) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(b)(2)(ii) § 60.665(c) § 60.665(c)(3) § 60.665(c)(4) § 60.703(c)(1) § 60.703(c)(1)(i) § 60.705(d)(1) § 60.705(d)(2) | § 60.665(a) § 60.665(b) § 60.665(b)(2) § 60.665(b)(2)(i) § 60.665(b)(2)(ii) § 60.665(c) § 60.665(c)(3) § 60.665(c)(4) § 60.665(k) § 60.665(l) § 60.665(l)(1) § 60.665(l)(2) § 60.705(l)(2) § 60.705(l)(7) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|--|--|---|
| H-101 | EU | R7310-01 | NO _x | 30 TAC Chapter 117, Subchapter B | § 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3) | An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |
| H-101 | EU | R7310-01 | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3) | CO emissions must not exceed 400 ppmv at 3.0% O ₂ , dry basis. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|--|--|---|
| H-101 | EU | 63DDDDD-01 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD |
| H-1530 | EU | R7310-01 | NO _x | 30 TAC Chapter 117, Subchapter B | § 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3) | An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |

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|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|--|---|
| H-1530 | EU | R7310-01 | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3) | CO emissions must not exceed 400 ppmv at 3.0% O ₂ , dry basis. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |
| H-1530 | EU | 63DDDDD-01 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD |

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|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|--|--|---|
| H-3 | EU | R7ICI-01 | NO _x | 30 TAC Chapter 117, Subchapter B | § 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(ii) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3) | An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |
| H-3 | EU | R7ICI-01 | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3) | CO emissions must not exceed 400 ppmv at 3.0% O ₂ , dry basis. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |

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|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|---|--|--|---|
| H-3 | EU | 63DDDDD-01 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD |
| H-530 | EU | R7310-01 | NO _x | 30 TAC Chapter 117, Subchapter B | § 117.310(d)(3) § 117.310(a) § 117.310(a)(8)(A)(i) § 117.310(b) [G]§ 117.310(e)(1) § 117.310(e)(2) [G]§ 117.310(e)(3) § 117.310(e)(4) § 117.340(l)(2) § 117.340(p)(1) § 117.340(p)(2)(C) § 117.340(p)(3) | An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO _x emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.340(l)(2) § 117.340(o)(1) § 117.340(p)(1) § 117.340(p)(2)(A) § 117.340(p)(2)(B) § 117.340(p)(2)(C) § 117.8000(b) § 117.8000(c) § 117.8000(c)(1) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) § 117.340(p)(2)(D) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) § 117.8010(2)(C) § 117.8010(2)(D) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |

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|---------------------------|-------------------------|---------------|-------------|---------------------------------------|---|--|---|--|---|
| H-530 | EU | R7310-01 | CO | 30 TAC Chapter 117, Subchapter B | § 117.310(c)(1) § 117.310(c)(1)(B) § 117.310(c)(3) | CO emissions must not exceed 400 ppmv at 3.0% O ₂ , dry basis. | [G]§ 117.335(a)(1) § 117.335(a)(4) § 117.335(b) § 117.335(d) § 117.335(e) § 117.335(g) § 117.340(a) § 117.8000(b) § 117.8000(c) § 117.8000(c)(2) § 117.8000(c)(3) § 117.8000(c)(5) § 117.8000(c)(6) [G]§ 117.8000(d) § 117.8120 § 117.8120(2) [G]§ 117.8120(2)(A) § 117.8120(2)(B) | § 117.345(a) § 117.345(f) § 117.345(f)(1) § 117.345(f)(9) | § 117.335(b) § 117.335(g) [G]§ 117.345(b) [G]§ 117.345(c) § 117.8010 [G]§ 117.8010(1) § 117.8010(2) § 117.8010(2)(A) § 117.8010(2)(B) [G]§ 117.8010(3) § 117.8010(4) [G]§ 117.8010(5) § 117.8010(6) [G]§ 117.8010(7) [G]§ 117.8010(8) |
| H-530 | EU | 63DDDDD-01 | 112(B) HAPS | 40 CFR Part 63, Subpart DDDDD | § 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD |

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| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|--|---|--|
| HU-1891 | EP | 63FFFF-BATCH | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2460(a) § 63.11(b) § 63.2450(b) § 63.2460(a)-Table 2.1.c § 63.2460(b) § 63.2460(c)(7) § 63.982(b) § 63.983(a)(1) § 63.983(a)(2) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(d)(1) § 63.983(d)(1)(i) [G]§ 63.983(d)(2) § 63.983(d)(3) § 63.987(a) § 63.997(b)(1) § 63.997(c)(3) | You must meet each emission limit in Table 2 to this subpart that applies to you, and you must meet each applicable requirement specified in §63.2460(b) and (c). | [G]§ 63.115(d)(2)(v) § 63.115(d)(3)(iii) § 63.2460(c)(2)(i) § 63.2460(c)(2)(ii) § 63.2460(c)(2)(vi) § 63.2460(c)(3) § 63.2460(c)(3)(i) § 63.2460(c)(4) § 63.2460(c)(6) § 63.983(a)(3) § 63.983(a)(3)(i) § 63.983(b) [G]§ 63.983(b)(1) [G]§ 63.983(b)(2) [G]§ 63.983(b)(3) [G]§ 63.983(b)(4) [G]§ 63.983(c)(1) § 63.983(c)(2) § 63.983(c)(3) § 63.983(d)(1) § 63.983(d)(1)(ii) § 63.987(c) § 63.997(b) § 63.997(b)(1) § 63.997(c)(2) § 63.997(c)(3) § 63.997(c)(3)(i) § 63.997(c)(3)(ii) | § 63.2450(f)(2) § 63.2450(f)(2)(i) § 63.2450(f)(2)(ii) § 63.2460(c)(3)(ii) § 63.2460(c)(6) § 63.2525(g) § 63.983(a)(3)(i) § 63.983(a)(3)(ii) § 63.983(b) [G]§ 63.983(d)(2) § 63.987(c) § 63.998(a)(1)(ii) § 63.998(a)(1)(iii)(A) § 63.998(a)(1)(iii)(B) [G]§ 63.998(b)(1) [G]§ 63.998(b)(2) [G]§ 63.998(b)(3) [G]§ 63.998(b)(5) [G]§ 63.998(c)(1) [G]§ 63.998(d)(1) § 63.998(d)(3)(i) § 63.998(d)(3)(ii) § 63.998(d)(5) | § 63.2450(f)(2)(ii) § 63.2450(q) § 63.2460(c)(3)(i) § 63.997(b)(1) § 63.997(c)(3) § 63.998(a)(1)(iii)(A) [G]§ 63.998(b)(3) [G]§ 63.999(a)(1) § 63.999(b)(5) § 63.999(c)(1) [G]§ 63.999(c)(2) § 63.999(c)(3) § 63.999(c)(6) [G]§ 63.999(c)(6)(i) § 63.999(c)(6)(iv) [G]§ 63.999(d)(1) [G]§ 63.999(d)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|--|---|---|--|--|--|
| HU-1891 | EP | 63FFFF-PU | 112(B) HAPS | 40 CFR Part 63, Subpart FFFF | § 63.2440(a) § 63.2450(a) § 63.2450(l) § 63.2460(c)(1) | This subpart applies to each miscellaneous organic chemical manufacturing affected source. | § 63.2445(d) § 63.2460(c)(2)(v) | § 63.2525 § 63.2525(a) [G]§ 63.2525(b) § 63.2525(c) § 63.2525(f) § 63.2525(j) | § 63.2435(d) § 63.2445(c) § 63.2450(g)(5) § 63.2450(m) § 63.2450(m)(1) § 63.2450(m)(2) § 63.2460(c)(1) § 63.2515(a) § 63.2515(b)(2) § 63.2515(c) § 63.2520(a) [G]§ 63.2520(b) [G]§ 63.2520(c) [G]§ 63.2520(d) § 63.2520(e) § 63.2520(e)(1) [G]§ 63.2520(e)(10) § 63.2520(e)(2) § 63.2520(e)(3) § 63.2520(e)(4) § 63.2520(e)(5) § 63.2520(e)(5)(i) [G]§ 63.2520(e)(5)(ii) [G]§ 63.2520(e)(5)(iii) § 63.2520(e)(6) § 63.2520(e)(7) § 63.2520(e)(9) |
| L128B | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|---|--|
| L128B | EU | R5211-02 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(ii) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18 | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or greater, must be controlled by one of the following methods. | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1) § 115.216(1)(B) | § 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| L1798-40 | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|---|---|---|
| L1798-40 | EU | R5211-02 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1) § 115.212(a)(1)(A) § 115.212(a)(2) § 115.212(a)(3)(A) § 115.212(a)(3)(A)(i) § 115.212(a)(3)(B) [G]§ 115.212(a)(3)(C) § 115.212(a)(3)(D) § 115.212(a)(3)(E) § 115.214(a)(1)(B) § 115.214(a)(1)(C) § 60.18 | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors of VOC with a true vapor pressure of 0.5 psia or greater, must be controlled by one of the following methods. | § 115.212(a)(3)(B) § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.214(a)(1)(A)(ii) § 115.214(a)(1)(A)(iii) § 115.215 § 115.215(1) § 115.215(10) [G]§ 115.215(2) [G]§ 115.215(3) § 115.215(4) § 115.215(9) § 115.216(1) § 115.216(1)(B) | § 115.216 § 115.216(1) § 115.216(1)(B) § 115.216(2) § 115.216(3)(A) § 115.216(3)(A)(i) § 115.216(3)(A)(ii) § 115.216(3)(A)(iii) § 115.216(3)(B) | None |
| LPAOWW | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |
| LWAX | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| M-107 | EU | R5111-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| M-107 | EU | R5111-02 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| M-137 | EU | R5111-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| M-137 | EU | R5111-02 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| M-138 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|---|--|
| M-144 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| M-145 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| P-142 | EU | R7303-01 | EXEMPT | 30 TAC Chapter 117, Subchapter B | [G]§ 117.303(a)(10) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include any stationary diesel engine placed into service before October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average; and has not been modified, reconstructed, or relocated on or after October 1, 2001. §117.303(a)(10)(A)-(B) | None | § 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|---|--|---|---|
| P-142 | EU | 63ZZZZ-1 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| P-1576 | EU | R7303-01 | EXEMPT | 30 TAC Chapter 117, Subchapter B | [G]§ 117.303(a)(11) [G]§ 117.310(f) | Units exempted from the provisions of this division except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1) and 117.354(a)(5) include new, modified, reconstructed, or relocated stationary diesel engine placed into service on or after October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average, in other than emergency situations; and meets the requirements for non-road engines as specified. §117.303(a)(11)(A)-(B) | None | § 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|--------------------------|---------------------------------------|--|--|-------------------------------------|---|---|
| P-1576 | EU | 60III-02 | CO | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a) | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 37 KW and less than 130 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 5.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a). | None | None | [G]§ 60.4214(d) |
| P-1576 | EU | 60III-02 | NMHC and NO _x | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a) | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a). | None | None | [G]§ 60.4214(d) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|-------------------------------------|---|---|
| P-1576 | EU | 60III-02 | PM | 40 CFR Part 60, Subpart IIII | § 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a) | Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than 130 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.30 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a). | None | None | [G]§ 60.4214(d) |
| P-1576 | EU | 63ZZZZ-1 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6590(c) | Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part. | None | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|--|--|--|---|---|
| P-95A | EU | R7303-01 | EXEMPT | 30 TAC Chapter 117, Subchapter B | [G]§ 117.303(a)(10) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include any stationary diesel engine placed into service before October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average; and has not been modified, reconstructed, or relocated on or after October 1, 2001. §117.303(a)(10)(A)-(B) | None | § 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| P-95A | EU | 63ZZZZ-1 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-------------|---------------------------------------|--|--|--|---|---|
| P-95B | EU | R7303-01 | EXEMPT | 30 TAC Chapter 117, Subchapter B | [G]§ 117.303(a)(10) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include any stationary diesel engine placed into service before October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average; and has not been modified, reconstructed, or relocated on or after October 1, 2001. §117.303(a)(10)(A)-(B) | None | § 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |
| P-95B | EU | 63ZZZZ-1 | 112(B) HAPS | 40 CFR Part 63, Subpart ZZZZ | § 63.6602 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart ZZZZ | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart ZZZZ |
| SYS-740 | EU | R1111-01 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|---|--|
| SYS-740 | EP | R722-01 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2) | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare. | [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n) | § 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2) |
| SYS-740 | CD | 60A-01 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) *See Alternate Requirement | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|---|
| SYS-740 | CD | 60A-02 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) *See Alternate Requirement | None | None |
| SYS-740 | CD | 60A-03 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) *See Alternate Requirement | None | None |
| SYS910 | EU | R730-07 | EXEMPT | 30 TAC Chapter 117, Subchapter B | [G]§ 117.303(a)(10) [G]§ 117.310(f) | Units exempted from the provisions of this division, except as specified in §§117.310(f), 117.340(j), 117.345(f)(6) and (10), 117.350(c)(1), and 117.354(a)(5), include any stationary diesel engine placed into service before October 1, 2001, that operates less than 100 hours per year, based on a rolling 12-month average; and has not been modified, reconstructed, or relocated on or after October 1, 2001. §117.303(a)(10)(A)-(B) | None | § 117.340(j) [G]§ 117.345(f)(10) [G]§ 117.345(f)(6) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|---|
| TK-1 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-10 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-101 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-102 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-103 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-11 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-14 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-15 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-16 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-17 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1710A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1710B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-18 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| TK-1800 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-1800 | EU | 60KB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| TK-18o6 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-18o6 | EU | 6oKB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |
| TK-18o8 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|---|--|
| TK-1808 | EU | 60KB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.110b(a) | Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOLs for which construction/reconstruction /modification began after 7/23/84. | § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.116b(d) |
| TK-1810 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1812 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1814 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-1816 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1818 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1820 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-1822 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-19 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-201 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-202 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-203 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-204 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-205 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|---|
| TK-206 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-207 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-208 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-22 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|-------------------------------------|---|--|
| TK-22 | EU | R5111 | 115.118 | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in §115.118 of this title (relating to Recordkeeping Requirements), a storage tank storing volatile organic compounds (VOC) with a true vapor pressure less than 1.5 pounds per square inch absolute (psia) is exempt from the requirements of this division. | None | § 115.118 | None |
| TK-23 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-24A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-24B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|---|
| TK-25A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-25B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-27 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-28 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| TK-2805 | EU | 115TK-00100 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-2805 | EU | 60Kb-00429 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| TK-2806 | EU | 115TK-00100 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-2806 | EU | 60Kb-00429 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |
| TK-2808 | EU | 115TK-00088 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-29 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-2A | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-2A | EU | R5112-02 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-30 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-32 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|---|--|
| TK-33 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-34 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-36 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| TK-36 | EU | 60KB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |
| TK-37 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-37 | EU | 60KB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-38 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-39 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-3A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-3B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-40 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-4A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-4B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-54 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-55 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-56 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-5A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-5B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-60 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-60 | EU | R5112-02 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-6A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-6B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-710A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-710B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-7A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-7B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|---|
| TK-800 | EU | R5112-01 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.112(e)(1) § 115.112(e)(2) § 115.112(e)(2)(A) § 115.112(e)(2)(B) § 115.112(e)(2)(C) § 115.112(e)(2)(D) § 115.112(e)(2)(F) [G]§ 115.112(e)(2)(I) § 115.114(a)(1)(A) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.114(a)(1) § 115.114(a)(1)(A) [G]§ 115.117 | § 115.118(a)(3) § 115.118(a)(5) § 115.118(a)(6)(C) § 115.118(a)(7) | § 115.114(a)(1)(B) § 115.118(a)(3) |
| TK-800 | EU | 60KB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.112b(a)(1) § 60.112b(a)(1)(i) § 60.112b(a)(1)(ii)(C) § 60.112b(a)(1)(iii) § 60.112b(a)(1)(iv) § 60.112b(a)(1)(ix) § 60.112b(a)(1)(v) § 60.112b(a)(1)(vi) § 60.112b(a)(1)(vii) § 60.112b(a)(1)(viii) | Storage vessels specified in §60.112b(a) and equipped with a fixed roof in combination with an internal floating roof shall meet the specifications listed in §60.112b(a)(1)(i)-(ix). | § 60.113b(a)(1) § 60.113b(a)(2) § 60.113b(a)(4) § 60.113b(a)(5) § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.115b § 60.115b(a)(2) § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.113b(a)(2) § 60.113b(a)(5) § 60.115b § 60.115b(a)(1) § 60.115b(a)(3) |
| TK-808 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|---|--|
| TK-808 | EU | 60KB-01 | VOC | 40 CFR Part 60, Subpart Kb | § 60.110b(a) | Except for §60.110b(b), this subpart applies to vessels with a capacity greater than or equal to 75 cubic meters (19,800 gal) used to store VOCs for which construction/reconstruction /modification began after 7/23/84. | § 60.116b(a) § 60.116b(b) § 60.116b(c) § 60.116b(d) § 60.116b(e) § 60.116b(e)(1) [G]§ 60.116b(e)(3) | § 60.116b(a) § 60.116b(b) § 60.116b(c) | § 60.116b(d) |
| TK-812 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-814 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-820 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|-------------------------------------|---|--|
| TK-822A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-830 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-840 | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(6)(A) § 115.118(a)(7) | None |
| TK-8A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-8B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|---|--|---|--|
| TK-9A | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| TK-9B | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| UGDIESEL | EU | R5111 | VOC | 30 TAC Chapter 115, Storage of VOCs | § 115.111(a)(1) | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division. | [G]§ 115.117 | § 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7) | None |
| UNLOAD | EU | R5211-01 | VOC | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1) § 115.212(a)(2) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4) | § 115.216 § 115.216(2) § 115.216(3)(B) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|---|--|
| Z-101 | EU | R1111-01 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |
| Z-101 | EP | R722-01 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2) | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare. | [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n) | § 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|---|
| Z-101 | CD | 60A-01 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |
| Z-101 | CD | 60A-02 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(iii) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) § 60.18(f)(5) | None | None |
| Z-101 | CD | 60A-03 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(ii) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |
| Z-104 | EU | R5760 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Cooling Towers | § 115.761(c)(1) § 115.761(c)(3) § 115.766(i) | HRVOC emissions at each site located in Harris County that is subject to this division or Division 1 of this subchapter must not exceed 1,200 pounds of HRVOCs per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination. | § 115.764(c) § 115.764(f) | § 115.766(a)(1) § 115.766(a)(2) § 115.766(a)(3) § 115.766(a)(5) § 115.766(a)(6) § 115.766(c) [G]§ 115.766(g) [G]§ 115.766(h) § 115.766(i)(1) | § 115.766(i)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|---|--|
| Z-1101 | EU | R1111-01 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |
| Z-1101 | EP | R722-01 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2) | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare. | [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n) | § 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|---|--|---|
| Z-1101 | CD | 60A-01 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |
| Z-1101 | CD | 60A-02 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(iii) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) § 60.18(f)(5) | None | None |
| Z-1101 | CD | 60A-03 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(ii) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |
| Z-1104 | EU | R5760 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Cooling Towers | § 115.761(c)(1) § 115.761(c)(3) § 115.766(i) | HRVOC emissions at each site located in Harris County that is subject to this division or Division 1 of this subchapter must not exceed 1,200 pounds of HRVOCs per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination. | § 115.764(c) § 115.764(f) | § 115.766(a)(1) § 115.766(a)(2) § 115.766(a)(3) § 115.766(a)(5) § 115.766(a)(6) § 115.766(c) [G]§ 115.766(g) [G]§ 115.766(h) § 115.766(i)(1) | § 115.766(i)(2) |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|-------------------------------------|--|--|
| Z-201 | EU | R5760 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Cooling Towers | § 115.761(c)(1) § 115.761(c)(3) § 115.766(i) | HRVOC emissions at each site located in Harris County that is subject to this division or Division 1 of this subchapter must not exceed 1,200 pounds of HRVOCs per one-hour block period from any flare, vent, pressure relief valve, cooling tower, or any combination. | § 115.764(c) § 115.764(f) | § 115.766(a)(1) § 115.766(a)(2) § 115.766(a)(3) § 115.766(a)(5) § 115.766(a)(6) § 115.766(c) [G]§ 115.766(g) [G]§ 115.766(h) § 115.766(i)(1) | § 115.766(i)(2) |
| Z-2437 | EP | R5722-01 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.727(c)(2) | A vent gas stream that has the potential to emit HRVOCs, but has a concentration less than 100 ppmv at all times or has a maximum potential flow rate equal to or less than 100 dry standard cubic feet per hour is exempt from this division with the exception of § 115.726(e)(3)(A) of this title. The maximum potential HRVOC emissions for the sum of all vent gas streams claimed under this exemption, must be less for the account specified in § 115.722(a) or (b) of this title than 0.5 tpy. | None | § 115.726(e)(3)(A) § 115.726(j)(2) | None |
| Z-2437 | EP | R5121-04 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(3)(C) [G]§ 115.122(a)(4) § 115.127(a)(3) | A vent gas stream from the specified manufacturing processes with a VOC concentration less than 408 ppmv is exempt from the requirements of §115.121(a)(2)(B)-(E). | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|--|
| Z-2437 | EP | R5121-05 | VOC | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(3)(A) [G]§ 115.122(a)(4) § 115.127(a)(3) | A vent gas stream having a combined weight of VOC < 100 lb (45.4 kg) in any continuous 24-hour period is exempt from the requirements of §115.121(a)(2)(B)-(E) of this title. | [G]§ 115.125 § 115.126(2) | § 115.126 § 115.126(2) § 115.126(4) | None |
| Z-251 | EU | R1111-01 | OPACITY | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A) | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for emission event emissions as provided in §101.222(b). | § 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii) | § 111.111(a)(4)(A)(ii) | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|---|--|
| Z-251 | EU | 115-FLARE027 | HIGHLY REACTIVE VOC | 30 TAC Chapter 115, HRVOC Vent Gas | § 115.722(d) § 115.722(d)(1) § 115.722(d)(2) [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) [G]§ 115.725(l) § 115.725(m)(2)(A) § 115.725(m)(2)(B) [G]§ 115.726(a)(2) | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare. | [G]§ 115.725(d)(1) § 115.725(d)(2) § 115.725(d)(2)(A)(i) [G]§ 115.725(d)(2)(A)(ii) § 115.725(d)(2)(A)(iii) § 115.725(d)(2)(A)(iv) § 115.725(d)(2)(B) § 115.725(d)(2)(B)(i) § 115.725(d)(2)(B)(ii) § 115.725(d)(2)(B)(iii) § 115.725(d)(2)(B)(iv) § 115.725(d)(3) § 115.725(d)(4) § 115.725(d)(5) § 115.725(d)(6) § 115.725(d)(7) § 115.725(k)(1) [G]§ 115.725(l) § 115.725(m)(1) § 115.725(m)(2)(A) § 115.725(m)(2)(B) § 115.725(n) | § 115.726(a)(1) § 115.726(a)(1)(A) § 115.726(d)(1) § 115.726(d)(10) § 115.726(d)(2) § 115.726(d)(3) § 115.726(d)(4) § 115.726(i) § 115.726(j)(1) § 115.726(j)(2) | § 115.725(n) § 115.726(a)(1)(B) [G]§ 115.726(a)(2) |
| Z-251 | CD | 60A-01 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(i) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|--|--|
| Z-251 | CD | 60A-02 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(iii) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) § 60.18(f)(5) | None | None |
| Z-251 | CD | 60A-03 | OPACITY | 40 CFR Part 60, Subpart A | § 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(4)(ii) § 60.18(c)(6) § 60.18(e) | Flares shall comply with paragraphs (c)-(f) of § 60.18. | § 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4) | None | None |
| Z-251 | CD | 63A-01 | OPACITY | 40 CFR Part 63, Subpart A | § 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(i) | Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used. | § 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i) | None | None |
| Z-251 | CD | 63A-02 | OPACITY | 40 CFR Part 63, Subpart A | § 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(iii) | Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used. | § 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i) | None | None |

Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.) | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144) | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|--|--|
| Z-251 | CD | 63A-03 | OPACITY | 40 CFR Part 63, Subpart A | § 63.11(b)(4) § 63.11(b)(1) § 63.11(b)(2) § 63.11(b)(3) § 63.11(b)(5) § 63.11(b)(6)(ii) § 63.11(b)(7)(ii) | Flares shall be designed and operated with no visible emissions, except for periods of a total of 5 minutes or less during any 2 consecutive hrs. Test Method 22 in App. A of part 60 of this chapter shall be used. | § 63.11(b)(4) § 63.11(b)(5) § 63.11(b)(7)(i) | None | None |

Additional Monitoring Requirements

| | |
|--|------------|
| Compliance Assurance Monitoring Summary | 225 |
| Periodic Monitoring Summary..... | 237 |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 110 | |
| Control Device ID No.: SYS-740 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Four times an hour | |
| Averaging Period: One Hour | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 110 | |
| Control Device ID No.: Z-101 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-02 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Four times an hour | |
| Averaging Period: One Hour | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 110 | |
| Control Device ID No.: Z-251 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-03 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Four times an hour | |
| Averaging Period: One Hour | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 129 | |
| Control Device ID No.: SYS-740 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Hourly | |
| Averaging Period: N/A | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 129 | |
| Control Device ID No.: Z-101 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-02 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Hourly | |
| Averaging Period: N/A | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 129 | |
| Control Device ID No.: Z-251 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-03 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Hourly | |
| Averaging Period: N/A | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--|
| ID No.: 135 | |
| Control Device ID No.: H-530 | Control Device Type: Other Control Device Type |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per day | |
| Averaging Period: n/a* | |
| Deviation Limit: ANY THREE HOUR FIREBOX AVERAGE TEMPERATURE<758 DEGREES FARENHEIT DURING PERIODS WHEN THE DISTILLATION TOWER VENT IS DIRECTED TO THE FIREBOX. | |
| <p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. | |

*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 136 | |
| Control Device ID No.: SYS-740 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Four times an hour | |
| Averaging Period: Once an hour | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 136 | |
| Control Device ID No.: Z-101 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-02 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Four times an hour | |
| Averaging Period: Once an hour | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 136 | |
| Control Device ID No.: Z-251 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-03 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Four times an hour | |
| Averaging Period: Once an hour | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 1798-22 | |
| Control Device ID No.: Z-1101 | Control Device Type: Flare |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Pilot Flame | |
| Minimum Frequency: Hourly | |
| Averaging Period: N/A | |
| <p>Deviation Limit: Absence of pilot flame. If all monitoring devices indicate absence of pilot flame, it should be confirmed visually. If pilot flame is absent, as indicated by both monitoring devices and visual indication, it should be considered a deviation.</p> | |
| <p>CAM Text: Monitor the presence of a flare pilot flame using a thermocouple or other equivalent device to detect the presence of a flame or using an alarm that uses a thermocouple or other equivalent device to detect the absence of a flame.</p> <p>Maintain records of events when pilot flame is absent and duration of events.</p> <p>Each monitoring device shall be accurate to within manufacturer's recommendations. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications or other written procedures that provide an adequate assurance that the device is calibrated accurately.</p> | |

CAM Summary

| Unit/Group/Process Information | |
|---|--|
| ID No.: 1798-23 | |
| Control Device ID No.: H-1530 | Control Device Type: Other Control Device Type |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Combustion Temperature / Exhaust Gas Temperature | |
| Minimum Frequency: once per day | |
| Averaging Period: n/a* | |
| Deviation Limit: Any three consecutive hours firebox temperature average < 778 degrees Fahrenheit during periods when the distillation tower vent is directed to the firebox. | |
| <p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. | |

*The permit holder may elect to collect monitoring data on a more frequent basis and calculate the average as specified by the minimum frequency, for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances to avoid reporting deviations.

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|---|
| ID No.: 120 | |
| Control Device ID No.: H-3 | Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is greater than or equal to 44MW) |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Period of Operation | |
| Minimum Frequency: n/a | |
| Averaging Period: n/a | |
| Deviation Limit: All periods that are not recorded shall be considered and reported as a deviation. | |
| Periodic Monitoring Text: Monitor and record the periods of operation of the steam generating units or process heater. All periods that are not recorded shall be considered and reported as a deviation. The records must be readily available for inspection. | |

Periodic Monitoring Summary

| Unit/Group/Process Information | |
|---|--------------------------------|
| ID No.: 1795-60 | |
| Control Device ID No.: N/A | Control Device Type: N/A |
| Applicable Regulatory Requirement | |
| Name: 30 TAC Chapter 115, Vent Gas Controls | SOP Index No.: R5121-01 |
| Pollutant: VOC | Main Standard: § 115.121(a)(2) |
| Monitoring Information | |
| Indicator: Period of Operation | |
| Minimum Frequency: n/a | |
| Averaging Period: n/a | |
| Deviation Limit: All periods that are not recorded shall be considered and reported as a deviation. | |
| Periodic Monitoring Text: Monitor and record the periods of operation of the steam generating units or process heater. All periods that are not recorded shall be considered and reported as a deviation. The records must be readily available for inspection. | |

Permit Shield

Permit Shield240

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|--|---|
| ID No. | Group/Inclusive Units | | |
| 1795-63 | N/A | 30 TAC Chapter 115, Vent Gas Controls | Vent does not emit VOCs |
| E-2201 | N/A | 40 CFR Part 60, Subpart RRR | This source is subject to both 40 CFR Part 60, Subpart RRR and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| E-2202 | N/A | 40 CFR Part 60, Subpart RRR | This source is subject to both 40 CFR Part 60, Subpart RRR and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| E-2203 | N/A | 40 CFR Part 60, Subpart RRR | This source is subject to both 40 CFR Part 60, Subpart RRR and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| F-130 | N/A | 40 CFR Part 60, Subpart VVa | Expansion capital expenditure costs did not exceed the applicability levels as defined in 40 CFR §60.481(a); therefore, NSPS VVa is not triggered. |
| F-1795-66 | N/A | 30 TAC Chapter 115, HRVOC Fugitive Emissions | Process fluid does not contain highly-reactive volatile organic compounds (HRVOC). |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|--|-----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| F-1795-66 | N/A | 40 CFR Part 60, Subpart VV | Does not produce a listed chemical. |
| F-1798-30 | N/A | 40 CFR Part 60, Subpart VVa | Expansion capital expenditure costs did not exceed the applicability levels as defined in 40 CFR §60.481(a); therefore, NSPS VVa is not triggered. |
| F-1891 | N/A | 40 CFR Part 60, Subpart VVa | The unit is not an affected SO2 facility as it does not produce as intermediates or products any of the chemicals listed in 40 CFR §60.489a. |
| GRP1795R | R-101, R-102 | 40 CFR Part 60, Subpart III | Facility is not an air oxidation reactor. |
| GRP1795R | R-101, R-102 | 40 CFR Part 60, Subpart RRR | Constructed before the applicability date |
| GRP1797R | R-201, R-202, R-203, R-204, R-205 | 40 CFR Part 60, Subpart III | Facility is not an air oxidation reactor. |
| GRP1797R | R-201, R-202, R-203, R-204, R-205 | 40 CFR Part 60, Subpart RRR | Constructed before the applicability date |
| GRP1798R | R-1201, R-1202, R-1203, R-1204, R-1205, R-1206, R-1207, R-1208, R-1209, R-1210 | 40 CFR Part 60, Subpart III | Facility is not an air oxidation reactor |
| GRPDIST1795 | T-102, T-103 | 40 CFR Part 60, Subpart NNN | Affected facility does not produce any chemicals listed in 60.667. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| HU-1891 | N/A | 40 CFR Part 60, Subpart DDD | This source does not meet the definition of process section, per §60.561. Additionally, polymer is not sent for off-site purification or treatment, sale, or resale. |
| M-102 | N/A | 40 CFR Part 60, Subpart Kb | Pressure vessel designed to operate in excess of 204 kPa and without emissions to the atmosphere. |
| M-107 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| M-107 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| M-107 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 10,000 gallons |
| M-107 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| M-137 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| M-137 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| M-137 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| M-137 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| M-138 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| M-138 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|------------------------------|--|
| ID No. | Group/Inclusive Units | | |
| M-138 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| M-138 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| M-144 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 06/11/1973 and 05/19/1978 |
| M-144 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 05/18/1978 and 07/23/1984 |
| M-144 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 10,000 gallons |
| M-144 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| M-145 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 06/11/1973 and 05/19/1978 |
| M-145 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 05/18/1978 and 07/23/1984 |
| M-145 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 10,000 gallons |
| M-145 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| PRONAO 1798 | N/A | 40 CFR Part 63, Subpart FFFF | The MCPU does not process, use, or generate any of the organic HAP listed in section 112(b) of the CAA or hydrogen halide and halogen HAP, as defined in §63.2550. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|------------------------------|---|
| ID No. | Group/Inclusive Units | | |
| PRONAO1797 | N/A | 40 CFR Part 63, Subpart FFFF | The MCPU does not process, use, or generate any of the organic HAP listed in section 112(b) of the CAA or hydrogen halide and halogen HAP, as defined in §63.2550. |
| PROP AO1795 | N/A | 40 CFR Part 63, Subpart FFFF | The MCPU does not process, use, or generate any of the organic HAP listed in section 112(b) of the CAA or hydrogen halide and halogen HAP, as defined in §63.2550. |
| SYS-740 | N/A | 40 CFR Part 61, Subpart A | Flare not used as a control device for a facility subject to 40 CFR Part 61. |
| SYS-740 | N/A | 40 CFR Part 63, Subpart A | Flare not used as a control device for a facility subject to 40 CFR Part 63. |
| SYS910 | N/A | 40 CFR Part 63, Subpart ZZZZ | Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii). |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| T-2370 | N/A | 40 CFR Part 60, Subpart NNN | This source is subject to both 40 CFR Part 60, Subpart NNN and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| T-2410 | N/A | 40 CFR Part 60, Subpart NNN | This source is subject to both 40 CFR Part 60, Subpart NNN and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| T-2420 | N/A | 40 CFR Part 60, Subpart NNN | This source is subject to both 40 CFR Part 60, Subpart NNN and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| T-2720 | N/A | 40 CFR Part 60, Subpart NNN | This source is subject to both 40 CFR Part 60, Subpart NNN and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| TK-1 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-1 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-1 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-10 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-10 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-10 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-10 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-101 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-101 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-101 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-101 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-102 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-102 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-102 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-102 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-103 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-103 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-103 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-103 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-11 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-11 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-11 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-11 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-12 | N/A | 40 CFR Part 60, Subpart Kb | Pressure vessel designed to operate in excess of 204 kPa and without emissions to the atmosphere. |
| TK-15 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-15 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-15 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-15 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-16 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-16 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-16 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-16 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-17 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-17 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-17 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-17 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1710A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1710A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1710A | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-1710A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1710B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1710B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1710B | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1710B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-18 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-18 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-18 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-18 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1800 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1800 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1800 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-1804 | N/A | 40 CFR Part 60, Subpart Kb | Pressure vessel designed to operate in excess of 204 kPa and without emissions to the atmosphere. |
| TK-1806 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1806 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1806 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1808 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified after 7-23-84 |
| TK-1808 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1808 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1810 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1810 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1810 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1810 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-1812 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1812 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 & 7-23-84 |
| TK-1812 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1812 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1814 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 & 5-19-78 |
| TK-1814 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 & 7-23-84 |
| TK-1814 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1814 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1816 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1816 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-1816 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1816 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1818 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1818 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1818 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1818 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-1820 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1820 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1820 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1820 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-1822 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-1822 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-1822 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-1822 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-19 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-19 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-19 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-19 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-201 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-201 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-201 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-201 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-202 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-202 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-202 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-202 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-203 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-203 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-203 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-203 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-204 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-204 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-204 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-204 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-205 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-205 | N/A | 40 CFR Part 60, Subpart Ka | Does not store a petroleum liquid. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-205 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-205 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-206 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-206 | N/A | 40 CFR Part 60, Subpart Ka | Does not store a petroleum liquid. |
| TK-206 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-206 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-22 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-22 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-22 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-22 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-23 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-23 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-23 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-23 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-24A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-24A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-24A | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-24A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-24B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-24B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-24B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-24B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-25A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-25A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-25A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-25A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| TK-25B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-25B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-25B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-25B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-27 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-27 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-27 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-27 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-28 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-28 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84. |
| TK-28 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84. |
| TK-28 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-2808 | N/A | 40 CFR Part 60, Subpart Kb | Maximum true vapor pressure of liquid stored is less than 0.5 psi. |
| TK-29 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-29 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-29 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-29 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene. |
| TK-2A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-2A | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-2A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-2A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-30 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-30 | N/A | 40 CFR Part 60, Subpart Ka | Does not store a petroleum liquid. |
| TK-30 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-30 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-32 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-32 | N/A | 40 CFR Part 60, Subpart Ka | Does not store a petroleum liquid. |
| TK-32 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-32 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-33 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-33 | N/A | 40 CFR Part 60, Subpart Ka | Does not store a petroleum liquid. |
| TK-33 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-33 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-34 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-34 | N/A | 40 CFR Part 60, Subpart Ka | Does not store a petroleum liquid. |
| TK-34 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-34 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-36 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-36 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-36 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-37 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-37 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-37 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-38 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-38 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-38 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-38 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-39 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-39 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-------------------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-39 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-39 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-40 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-40 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-40 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-40 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-403 | N/A | 30 TAC Chapter 115, Storage of VOCs | Storage tank with a capacity less than 25,000 gallons located at a motor vehicle fuel dispensing facility. |
| TK-403 | N/A | 40 CFR Part 60, Subpart K | Capacity less than 40,000 gallons. |
| TK-403 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons. |
| TK-403 | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 75 cubic meters. |
| TK-403 | N/A | 40 CFR Part 61, Subpart Y | Storage vessel does not store benzene with a specific gravity within the range of specific gravities specified in §61.270(a). |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-4A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-4A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-4A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-4A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-4B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-4B | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-4B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-4B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-54 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-54 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-54 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-54 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-55 | N/A | 40 CFR Part 60, Subpart K | Capacity less than 40,000 gallons. |
| TK-55 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-55 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals. |
| TK-55 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene. |
| TK-56 | N/A | 40 CFR Part 60, Subpart K | Capacity less than 40,000 gallons. |
| TK-56 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons. |
| TK-56 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than or equal to 151 m3 storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals. |
| TK-56 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene. |
| TK-5A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-5A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-5A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-5A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-5B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-5B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-5B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-5B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-60 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-60 | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-60 | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 07/23/1984 |
| TK-60 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-6A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-6A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-6A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-6A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-6B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-6B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-6B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-6B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-710A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-710A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-710A | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-710A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-710B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-710B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-710B | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-710B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-7A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-7A | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-7A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-7A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-7B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-7B | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-7B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-7B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-800 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-800 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-800 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-808 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-808 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-808 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-812 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-812 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-812 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-812 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-814 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-814 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-814 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-814 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-820 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-820 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-820 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-820 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-822A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-822A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-822A | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-822A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-830 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-830 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-830 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-830 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| TK-840 | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-840 | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-840 | N/A | 40 CFR Part 60, Subpart Kb | Storage vessel with a capacity greater than 151 m3 storing a liquid with maximum true vapor pressure less than 3.5 kPa. |
| TK-840 | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-8A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-8A | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-8A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-8A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-8B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-8B | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons |
| TK-8B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-8B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|----------------------------|--|
| ID No. | Group/Inclusive Units | | |
| TK-9A | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-9A | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-9A | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-9A | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| TK-9B | N/A | 40 CFR Part 60, Subpart K | Not constructed or modified between 6-11-73 and 5-19-78 |
| TK-9B | N/A | 40 CFR Part 60, Subpart Ka | Not constructed or modified between 5-18-78 and 7-23-84 |
| TK-9B | N/A | 40 CFR Part 60, Subpart Kb | Not constructed or modified after 7-23-84 |
| TK-9B | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene |
| UGDIESEL | N/A | 40 CFR Part 60, Subpart K | Capacity less than 40,000 gallons. |
| UGDIESEL | N/A | 40 CFR Part 60, Subpart Ka | Capacity less than 40,000 gallons. |
| UGDIESEL | N/A | 40 CFR Part 60, Subpart Kb | Capacity less than 10,600 gallons. |
| UGDIESEL | N/A | 40 CFR Part 61, Subpart Y | Does not store benzene. |
| Z-101 | N/A | 40 CFR Part 61, Subpart A | Flare not used as a control device for a facility subject to 40 CFR Part 61. |

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process | | Regulation | Basis of Determination |
|--------------------|-----------------------|-----------------------------|---|
| ID No. | Group/Inclusive Units | | |
| Z-101 | N/A | 40 CFR Part 63, Subpart A | Flare not used as a control device for a facility subject to 40 CFR Part 63. |
| Z-104 | N/A | 40 CFR Part 63, Subpart Q | Cooling tower does not use any chromium based water treatment chemicals |
| Z-1101 | N/A | 40 CFR Part 61, Subpart A | Flare not used as a control device for a facility subject to 40 CFR Part 61. |
| Z-1101 | N/A | 40 CFR Part 63, Subpart A | Flare not used as a control device for a facility subject to 40 CFR Part 63. |
| Z-1104 | N/A | 40 CFR Part 63, Subpart Q | Cooling tower does not use any chromium based water treatment chemicals |
| Z-201 | N/A | 40 CFR Part 63, Subpart Q | Cooling tower does not use any chromium based water treatment chemicals |
| Z-2432A | N/A | 40 CFR Part 60, Subpart NNN | This source is subject to both 40 CFR Part 60, Subpart NNN and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |
| Z-2432B | N/A | 40 CFR Part 60, Subpart NNN | This source is subject to both 40 CFR Part 60, Subpart NNN and 40 CFR Part 63, Subpart FFFF, through emission unit 129. Electing to comply with 40 CFR Part 63, Subpart FFFF per §63.2535(h). |

New Source Review Authorization References

New Source Review Authorization References 273

New Source Review Authorization References by Emission Unit..... 275

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Nonattainment (NA) Permits | |
|---|------------------------------|
| NA Permit No.: N178 | Issuance Date: 01/30/2015 |
| NA Permit No.: N224 | Issuance Date: 05/13/2016 |
| Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area. | |
| Authorization No.: 123965 | Issuance Date: 11/14/2014 |
| Authorization No.: 129179 | Issuance Date: 02/25/2015 |
| Authorization No.: 135086 | Issuance Date: 05/13/2016 |
| Authorization No.: 37063 | Issuance Date: 01/30/2015 |
| Authorization No.: 6517A | Issuance Date: 05/10/2007 |
| Authorization No.: 83791 | Issuance Date: 03/09/2016 |
| Permits By Rule (30 TAC Chapter 106) for the Application Area | |
| Number: 106.261 | Version No./Date: 12/24/1998 |
| Number: 106.261 | Version No./Date: 09/04/2000 |
| Number: 106.261 | Version No./Date: 11/01/2003 |
| Number: 106.262 | Version No./Date: 12/24/1998 |
| Number: 106.262 | Version No./Date: 09/04/2000 |
| Number: 106.262 | Version No./Date: 11/01/2003 |
| Number: 106.263 | Version No./Date: 11/01/2001 |
| Number: 106.264 | Version No./Date: 09/04/2000 |
| Number: 106.412 | Version No./Date: 09/04/2000 |
| Number: 106.472 | Version No./Date: 03/14/1997 |
| Number: 106.472 | Version No./Date: 09/04/2000 |
| Number: 106.473 | Version No./Date: 03/14/1997 |
| Number: 106.473 | Version No./Date: 09/04/2000 |
| Number: 106.478 | Version No./Date: 09/04/2000 |
| Number: 106.492 | Version No./Date: 09/04/2000 |
| Number: 106.511 | Version No./Date: 09/04/2000 |

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| | |
|-----------------|------------------------------|
| Number: 106.512 | Version No./Date: 06/13/2001 |
| Number: 106.532 | Version No./Date: 09/04/2000 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| 110 | Z-101 FLARE VENT HEADER | 37063, N178 |
| 120 | H-3 VENT HEADER | 37063, 106.261/11/01/2003, N178 |
| 129 | Z-251 FLARE VENT HEADER | 37063, N178 |
| 135 | H-530 VENT HEADER | 37063, N178 |
| 136 | SYS-740 FLARE VENT HEADER | 37063, N178 |
| 1795-60 | H-101 VENT HEADER | 6517A |
| 1795-63 | T-101 ABSORBER VENT | 6517A |
| 1795-65 | PAOU PRODUCT LOADING | 6517A, 106.261/11/01/2003 |
| 1798-22 | Z-1101 FLARE VENT HEADER | 37063, N178 |
| 1798-23 | H-1530 VENT HEADER | 37063, N178 |
| C-2434A | PELLET DRYER BLOWER VENT | 37063, N178 |
| C-2434B | PELLET DRYER BLOWER VENT | 37063, N178 |
| C4LOAD | BUTENE PRODUCT LOADING | 37063, N178 |
| D1353 | WASTE WATER DEGASSING DRUM | 37063, N178 |
| D-201 | DRUM | 106.472/09/04/2000 |
| D-353 | WASTEWATER DEGASSING DRUM | 37063, N178 |
| E-2201 | REACTOR LOOP NO. 1 | 37063, N178 |
| E-2202 | REACTOR LOOP NO. 2 | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|----------------------------------|---|
| E-2203 | REACTOR LOOP NO. 3 | 37063, N178 |
| F-130 | NAOU 1791/1797 PROCESS FUGITIVES | 123965, 37063, 106.261/11/01/2003, N178 |
| F-1795-66 | PAOU 1795 PROCESS FUGITIVES | 6517A, 106.261/11/01/2003, 106.262/11/01/2003 |
| F-1798-30 | NAOU 1798 PROCESS FUGITIVES | 37063, 106.261/11/01/2003, N178 |
| F-1891 | 1-HEXENE UNIT FUGITIVES | 37063, 106.261/11/01/2003, 106.262/11/01/2003, N178 |
| G-202A | API OIL/WATER SEPARATOR | 123965, 37063, 106.532/09/04/2000, N178 |
| G-202B | API OIL/WATER SEPARATOR | 123965, 37063, N178 |
| H-101 | DOWTHERM HEATER | 6517A, N178 |
| H-1530 | DOWTHERM HEATER | 37063, N178 |
| H-3 | DOWTHERM HEATER | 37063, 106.261/11/01/2003, N178 |
| H-530 | DOWTHERM HEATER | 37063, N178 |
| HU-1891 | 1-HEXENE UNIT | 37063, N178 |
| L128B | NAO PRODUCT LOADING FACILITY | 37063, N178 |
| L1798-40 | ATLR LOADING FACILITY | 37063, N178 |
| LPAOWW | PAO WASTEWATER LOADING FACILITY | 37063, 106.472/09/04/2000, N178 |
| LWAX | WAX LOADING FACILITY | 37063, 106.472/09/04/2000, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| M-102 | PRESSURIZED VESSEL M-102 | 37063, N178 |
| M-107 | WASTEWATER STORAGE | 37063, N178 |
| M-137 | WASTEWATER STORAGE | 37063, N178 |
| M-138 | C20+ WAX TANK | 37063, N178 |
| M-144 | SLOP OIL TANK | 37063, N178 |
| M-145 | SLOP OIL TANK | 37063, N178 |
| P-142 | STORM WATER PUMP ENGINE | 37063, N178 |
| P-1576 | OILY WASTE WATER PUMP ENGINE | 106.511/09/04/2000 |
| P-95A | STORM WATER PUMP ENGINE | 37063, N178 |
| P-95B | STORM WATER PUMP ENGINE | 37063, N178 |
| PRONAO 1798 | NAO 1798 PROCESS UNIT | 37063, N178 |
| PRONAO1797 | NAO 1797 PROCESS UNIT | 37063, N178 |
| PROPAO1795 | PAO 1795 PROCESS UNIT | 37063, N178 |
| R-101 | REACTOR | 6517A |
| R-102 | REACTOR | 6517A |
| R-1201 | REACTOR | 37063, N178 |
| R-1202 | REACTOR | 37063, N178 |
| R-1203 | REACTOR | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| R-1204 | REACTOR | 37063, N178 |
| R-1205 | REACTOR | 37063, N178 |
| R-1206 | REACTOR | 37063, N178 |
| R-1207 | REACTOR | 37063, N178 |
| R-1208 | REACTOR | 37063, N178 |
| R-1209 | REACTOR | 37063, N178 |
| R-1210 | REACTOR | 37063, N178 |
| R-201 | REACTOR | 37063, N178 |
| R-202 | REACTOR | 37063, N178 |
| R-203 | REACTOR | 37063, N178 |
| R-204 | REACTOR | 37063, N178 |
| R-205 | REACTOR | 37063, N178 |
| SYS-740 | 1797 FLARE | 37063, N178 |
| SYS910 | ENGINE | 37063, N178 |
| T-102 | 1795 C20/C30 SPLITTER | 6517A |
| T-103 | 1795 PRODUCT TOWER | 6517A |
| T-1370 | 1798 DEETHANIZER | 37063, N178 |
| T-1380 | 1798 DEBUTENIZER | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| T-1381 | 1798 BUTENE STRIPPER | 37063, N178 |
| T-1400 | 1798 LIGHT SPLITTER | 37063, N178 |
| T-1410 | 1798 C6 TOWER | 37063, N178 |
| T-1420 | 1798 C8 TOWER | 37063, N178 |
| T-1430 | 1798 HEAVY SPLITTER | 37063, N178 |
| T-1440 | 1798 C12 TOWER | 37063, N178 |
| T-1450 | 1798 C14 TOWER | 37063, N178 |
| T-1460 | 1798 C16 TOWER | 37063, N178 |
| T-1470 | 1798 C26-C28 TOWER | 37063, N178 |
| T-1480 | 1798 C26-C28 TOWER | 37063, N178 |
| T-2370 | PRIMARY FRACTIONATOR | 37063, N178 |
| T-2410 | C6 SPLITTER | 37063, N178 |
| T-2420 | DILUENT RECOVERY COLUMN | 37063, N178 |
| T-2720 | ETHYLBENZENE STRIPPER | 37063, N178 |
| T-370 | 1797 DEETHANIZER TOWER | 37063, N178 |
| T-380 | 1797 DEBUTENIZER | 37063, N178 |
| T-381 | 1797 BUTANE STRIPPER | 37063, N178 |
| T-400 | 1797 C6-C10 TOWER | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| T-410 | 1797 C6 TOWER | 37063, N178 |
| T-411 | 1797 HEXENE TOWER | 37063, N178 |
| T-420 | 1797 C8 TOWER | 37063, N178 |
| T-430 | 1797 C12-C24 TOWER | 37063, N178 |
| T-431 | 1797 C24-C28 STRIPPER | 37063, N178 |
| T-440 | 1797 C12 TOWER | 37063, N178 |
| T-450 | 1797 C14 TOWER | 37063, N178 |
| T-460 | 1797 C16 TOWER | 37063, N178 |
| T-470 | 1797 C18 TOWER | 37063, N178 |
| TK-101 | FLUORIDE WW/CRUDE PAO TANK | 6517A |
| TK-102 | CRUDE PAO TANK | 6517A |
| TK-103 | BUTANOL TANK | 6517A |
| TK-10 | DECENE TANK | 37063, N178 |
| TK-11 | HEXADECENE TANK | 37063, 106.472/09/04/2000, N178 |
| TK-12 | PRESSURIZED VESSEL | 37063, N178 |
| TK-14 | TANK TK-14 | 6517A, 106.261/11/01/2003 |
| TK-15 | DECENE TANK | 37063, N178 |
| TK-16 | DECENE TANK | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| TK-1710A | C20+/CATALYST TANK | 37063, N178 |
| TK-1710B | C20+/CATALYST TANK | 37063, N178 |
| TK-17 | C12-C18 TANK | 37063, N178 |
| TK-1800 | C6-C30+ TANK | 37063, N178 |
| TK-1804 | PRESSUREIZED VESSEL TK-1804 | 37063, N178 |
| TK-1806 | HEXENE TANK | 37063, N178 |
| TK-1808 | OCTENE TANK | 37063, N178 |
| TK-1810 | DECENE TANK | 37063, N178 |
| TK-1812 | DODECENE TANK | 37063, N178 |
| TK-1814 | TETRADECENE TANK | 37063, N178 |
| TK-1816 | HEXADECENE TANK | 37063, N178 |
| TK-1818 | OCTADECENE TANK | 37063, N178 |
| TK-1820 | C20-C24 TANK | 37063, N178 |
| TK-1822 | C20+ TANK | 37063, N178 |
| TK-18 | HEXADECENE TANK | 37063, N178 |
| TK-19 | OCTADECENE TANK | 37063, N178 |
| TK-1 | C6-C10 TANK | 37063, N178 |
| TK-201 | POLYALPHA OLEFINS (PAO) TANK | 6517A |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|-----------------------------------|---------------------------------|
| TK-202 | PAO TANK | 6517A |
| TK-203 | PAO TANK | 6517A, 106.478/09/04/2000 |
| TK-204 | PAO TANK | 6517A, 106.478/09/04/2000 |
| TK-205 | PAO TANK | 6517A |
| TK-206 | PAO TANK | 6517A, 106.478/09/04/2000 |
| TK-207 | TANK TK-207 | 106.472/09/04/2000 |
| TK-208 | TANK TK-208 | 106.472/09/04/2000 |
| TK-22 | PAO TANK | 6517A, 106.472/03/14/1997 |
| TK-23 | DECENE TANK | 37063, N178 |
| TK-24A | C12-C18 TANK | 37063, N178 |
| TK-24B | DIMER TANK | 6517A, 106.261/11/01/2003 |
| TK-25A | HEXADECENE TANK | 37063, N178 |
| TK-25B | HEXADECENE TANK | 37063, N178 |
| TK-27 | HEXADECENE TANK | 37063, N178 |
| TK-2805 | CYCLOHEXANE STORAGE TANK | 37063, N178 |
| TK-2806 | 1-HEXENE PRODUCT TANK | 37063, N178 |
| TK-2808 | INTERMEDIATE OLEFINS PRODUCT TANK | 37063, N178 |
| TK-28 | SPENT CAUSTIC WITH HC LAYER | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|--|
| TK-29 | DECENE TANK | 37063, N178 |
| TK-2A | SPENT CAUSTIC | 37063, N178 |
| TK-30 | DECENE TANK | 37063, N178 |
| TK-32 | DECENE TANK | 37063, N178 |
| TK-33 | HEXADECENE TANK | 37063, N178 |
| TK-34 | HEXADECENE TANK | 37063, N178 |
| TK-36 | HEXENE TANK | 37063, N178 |
| TK-37 | HEXENE TANK | 37063, N178 |
| TK-38 | OCTADECENE TANK | 37063, N178 |
| TK-39 | MIXED HEAVY NAO | 37063, N178 |
| TK-3A | TANK TK-3A | 6517A, 106.261/11/01/2003 |
| TK-3B | TANK TK-3B | 6517A, 106.261/11/01/2003 |
| TK-403 | GASOLINE TANK | 106.412/09/04/2000, 106.473/09/04/2000 |
| TK-40 | C24-C28 TANK | 37063, N178 |
| TK-4A | DECENE TANK | 37063, N178 |
| TK-4B | DECENE TANK | 37063, N178 |
| TK-54 | SOLVENT TANK | 37063, N178 |
| TK-55 | SOLVENT TANK | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|---------------------------------|
| TK-56 | SOLVENT TANK | 37063, N178 |
| TK-5A | DODECENE TANK | 37063, N178 |
| TK-5B | DODECENE TANK | 37063, N178 |
| TK-60 | SPENT CAUSTIC STORAGE TANK | 37063, N178 |
| TK-6A | TETRADECENE TANK | 37063, N178 |
| TK-6B | TETRADECENE TANK | 37063, N178 |
| TK-710A | C24-C28/CATALYST TANK | 37063, N178 |
| TK-710B | C24-C28/CATALYST TANK | 37063, N178 |
| TK-7A | PAO TANK | 6517A, 106.472/03/14/1997 |
| TK-7B | PAO TANK | 6517A, 106.472/03/14/1997 |
| TK-800 | C6-C30+ TANK | 37063, N178 |
| TK-808 | OCTENE TANK | 37063, N178 |
| TK-812 | DODECENE TANK | 37063, N178 |
| TK-814 | TETRADECENE TANK | 37063, N178 |
| TK-820 | C20-C24 TANK | 37063, N178 |
| TK-822A | C20-C24 TANK | 37063, N178 |
| TK-830 | C30+ TANK | 37063, N178 |
| TK-840 | C20+ MIX TANK | 37063, N178 |

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization |
|---------------------------|--------------------------------|--|
| TK-8A | PAO TANK | 6517A, 106.478/09/04/2000 |
| TK-8B | PAO TANK | 6517A, 106.478/09/04/2000 |
| TK-9A | C20-C24 TANK | 37063, N178 |
| TK-9B | C30+ TANK | 37063, N178 |
| UGDIESEL | DIESEL STORAGE TANK | 106.473/03/14/1997 |
| UNLOAD | UNLOADING FACILITY | 37063, 6517A, 106.472/09/04/2000, 106.473/09/04/2000, N178 |
| Z-101 | 1797 FLARE | 129179, 135086, 37063, N178, N224 |
| Z-104 | 1797 COOLING TOWER | 37063, N178 |
| Z-1101 | 1798 FLARE | 135086, 37063, N178, N224 |
| Z-1104 | 1798 COOLING TOWER | 37063, N178 |
| Z-201 | 1791 COOLING TOWER | 37063, N178 |
| Z-2432A | THIN FILM EVAPORATOR A | 37063, N178 |
| Z-2432B | THIN FILM EVAPORATOR B | 37063, N178 |
| Z-2437 | PELLET FUGITIVE EMISSIONS | 37063, N178 |
| Z-251 | 1791 FLARE | 135086, 37063, N178, N224 |

Schedules

Compliance Schedule 287

Compliance Schedule

| A. Compliance Schedule | | | | |
|--|---|------------------------------|--------------------------------------|---|
| 1. Specific Non-Compliance Situation | | | | |
| Unit/Group/ Process ID. No(s). | SOP Index No. | Pollutant | Applicable Requirement | |
| | | | Citation | Text Description |
| Sitewide | | VOC | 30 TAC §115.142 | INDUSTRIAL WASTEWATER CONTROL REQUIREMENTS FOR AFFECTED STREAMS |
| 2. Compliance Status Assessment Method and Records Location | | | | |
| Compliance Status Assessment Method | | | Location of Records/Documentation | |
| Citation | Text Description | | | |
| 30 TAC §115.142 | Control requirements for affected wastewater streams | | Environmental records. | |
| 3. Non-compliance Situation Description | | | | |
| Several wastewater streams in the NAO-1797 and NAO-1798 units do not meet the industrial wastewater requirements for controlled streams. | | | | |
| 4. Corrective Action Plan Description | | | | |
| Design and install project to meet the control requirements. | | | | |
| 5. List of Activities/Milestones to Implement the Corrective Action Plan | | | | |
| 1 | Design and install appropriate controls for wastewater stream by 08/01/2016. | | | |
| 2 | Implement required monitoring, inspection, recordkeeping, and testing requirements by 08/01/2016. | | | |
| 3 | Update the Title V permit as necessary by 08/01/2016. | | | |
| 6. Previously Submitted Compliance Plan(s) | | Type of Action | | Date Submitted |
| | | N/A | | |
| 7. Progress Report Submission Schedule | | SUBMIT REPORT EVERY 6 MONTHS | | |

Compliance Schedule

| A. Compliance Schedule | | | | |
|---|--|------------------------------|--------------------------------------|---------------------------------------|
| 1. Specific Non-Compliance Situation | | | | |
| Unit/Group/ Process ID. No(s). | SOP Index No. | Pollutant | Applicable Requirement | |
| | | | Citation | Text Description |
| F-130 and F-1798-30 | 60VV-ALL | VOC | 40 CFR §60.482-5 | SAMPLING CONNECTION SYSTEMS STANDARDS |
| 2. Compliance Status Assessment Method and Records Location | | | | |
| Compliance Status Assessment Method | | | Location of Records/Documentation | |
| Citation | Text Description | | | |
| 40 CFR §60.482-5 | Closed purge sampling system requirements. | | Environmental records. | |
| 3. Non-compliance Situation Description | | | | |
| Heavy liquid sampling does not meet the closed purge sampling system standards. | | | | |
| 4. Corrective Action Plan Description | | | | |
| Upgrade sampling system to meet sampling system standards. | | | | |
| 5. List of Activities/Milestones to Implement the Corrective Action Plan | | | | |
| 1 | Upgrade sampling system to meet sampling system standards by 08/01/2016. | | | |
| 6. Previously Submitted Compliance Plan(s) | Type of Action | | | Date Submitted |
| | N/A | | | |
| 7. Progress Report Submission Schedule | | SUBMIT REPORT EVERY 6 MONTHS | | |

Compliance Schedule

| A. Compliance Schedule | | | | |
|---|--|----------------|---|---------------------------|
| 1. Specific Non-Compliance Situation | | | | |
| Unit/Group/ Process ID. No(s). | SOP Index No. | Pollutant | Applicable Requirement | |
| | | | Citation | Text Description |
| C-2434A/B, LWAX. Z-2437 | | VOC | NSR 37063, 30 TAC §116.115, §116.116 | NEW SOURCE REVIEW PERMITS |
| 2. Compliance Status Assessment Method and Records Location | | | | |
| Compliance Status Assessment Method | | | Location of Records/Documentation | |
| Citation | Text Description | | | |
| NSR 37063, 30 TAC §116.115, §116.116 | NSR permit emission authorizations and application representations | | Environmental records. | |
| 3. Non-compliance Situation Description | | | | |
| After the recent startup of the HU-1891 unit, discovered composition issues with the polymer solids stream (TFE bottoms) that are not consistent with the permit representations. | | | | |
| 4. Corrective Action Plan Description | | | | |
| Amend permit to update the permit representations. | | | | |
| 5. List of Activities/Milestones to Implement the Corrective Action Plan | | | | |
| 1 | Submit permit amendment to update the permit representations by April 1, 2017. | | | |
| 6. Previously Submitted Compliance Plan(s) | | Type of Action | | Date Submitted |
| | | N/A | | |
| 7. Progress Report Submission Schedule | | 6 MONTHS | | |

Alternative Requirement

Alternative Requirement291

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saltas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

August 30, 1999

Mr. T. F. Henken
Chevron
9500 I-10 East
Baytown, Texas 77251

Re: Determination of Flare Equivalency Under Title 40, Code of Federal Regulations Part 60 (40 CFR 60), Section 60.18, August 30, 1999, Chevron, Cedar Bayou Plant, Baytown, Harris County, Texas
Natural Resource Conservation Commission (TNRCC) Account No. HG-0310-V

Dear Mr. Henken:

In a letter dated January 28, 1998 I indicated that the subject flare system would be conditionally approved as an alternate means of control in answer to a request for waiver of the exit velocity testing requirements for flares found at 40 CFR 60, Section 60.18. This was due to the fact that the requirements found at 40 CFR 60, Section 60.18 do not address pressure-assisted flares (such as the SYS-740 Linear Relief Gas Oxidizer [LRGO] Flare System). As a result, another approach was deemed necessary to demonstrate destruction efficiency at the heat content and discharge velocity conditions for the Chevron SYS-740 LRGO Flare System.

The approach chosen for demonstrating destruction efficiency at the heat content and discharge velocity conditions for the Chevron SYS-740 LRGO Flare System was provided in a February 25, 1999 memorandum from Robert E. Rosensteel, U. S. Environmental Protection Agency (EPA) Research Triangle Park, North Carolina to Donna Ascenzi, EPA, Dallas, Texas regarding a similar device. The EPA-published stability curves for pressure assisted flares in EPA-600/2-85-106 dated September 1985 define for a given exit velocity the minimum heat content that maintains the flare flame. The curve for pressure-assisted Flare Head E was chosen for this analysis because it requires the highest heat content at a given velocity to maintain flame stability. The actual exit velocity for the Chevron SYS-740 LRGO Flare System is given as 440 feet per second (ft/sec), and it is understood that this is the maximum discharge velocity at which the flare will be operated. This velocity was then used to determine the corresponding heat content from the stability curve.

If we enter Figure 4-13 with a velocity of 440 ft/sec, we determine a heat content of approximately 550 British Thermal Unit (BTU) per standard cubic foot (scf) for Flare Head E to maintain a stable flame. We increase the heat content by 30 percent to assure 98% or greater destruction efficiency using Figure 4-4. The required heat content becomes 550 BTU/scf times 1.3 or 715 BTU/scf and if exit velocities are limited to 440 ft/sec or less, we can be confident of volatile organic compound destruction equivalent to that achieved when the specifications of 40 CFR 60, Section 60.18 are followed. The 1.3 factor is used due to the very

CEP 2.041

| CEDAR BAYOU PLANT | | | | |
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Mr. T. F. Henken
Page 2
August 30, 1999

steep efficiency curve as a function of heat content as seen in Figure 4-4, so that operation will occur on a relatively flat portion of this curve.

In summary, it is my opinion that the Chevron SYS-740 LRGO Flare System is equivalent to those operated meeting the specifications found at 40 CFR 60, Section 60.18 provided that the following conditions are met:

1. The flare is expected to operate smokelessly as required in 40 CFR 60 Section 60.18(c)(1).
2. The waste gas discharged from the SYS-740 LRGO flare head needs to meet minimum heat content of 715 BTU/scf with an exit velocity not exceeding 440 ft/sec. These conditions replace the specifications contained in 40 CFR 60, Section 60.18(c)(3) concerning required heat content and allowable velocity.
3. The provisions of 40 CFR 60, Sections 60.18(c)(4) through (c)(6) do not apply to this flare since they are applicable to non-assisted, steam-assisted, and air-assisted flares.
4. The provisions of 40 CFR 60, Sections 60.18(d), 60.18(e), and 60.18(f)(1) through (f)(4) should be applied to this flare while 40 CFR 60, Section 60.18(f)(5) and (f)(6) should not since the latter are requirements for designs other than pressure-assisted flares.

Consequently, operation of the Chevron SYS-740 LRGO Flare System is approved as equivalent to those operated under the specifications found in 40 CFR 60, Section 60.18 if the above conditions are satisfied.

By copy of this letter, we are informing the EPA, Region 6 office of this decision as required by TNRCC's delegation of authority.

If you have any questions, please contact me at the letterhead address, MC-171, or at (512) 239-1611.

Sincerely,



Dean Morrill
Engineering Services Team
Enforcement Division

DPM/db

cc: Ms. Donna Ascenzi, Chief, Air Enforcement Branch, U. S. Environmental Protection Agency,
Region 6, Dallas



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

JUL 18 1996

Mr. Theodore F. Henken
Chevron Chemical Plant
Cedar Bayou Plant
P.O. Box 509
Baytown, TX 77522-0509

Dear Mr. Henken:

This letter is in response to your letters dated September 8, 1994, and January 31, 1996 for approval of an alternative method for complying with 40 CFR Part 60, Subpart NNN, §60.663(c)(1). Your request pertains to eight distillation units (T-400, T-410, T-420, T-430, T-440, T-450, T-460, T-470,) in the Normal Alpha Olefin Unit 1797 subject to 40 CFR Part 60, Subpart NNN, at the Chevron Chemical Plant, Cedar Bayou Plant located in Baytown, Texas.

In your letters you stated that your distillation towers are continuous operations, not batch, the vent stream flow rates are greater than 0.008 scm/min., and the TRS index is not applicable since your vent streams contain no halogens and the net heating value is high for your products. You further stated that because of these factors your distillation towers were designed and constructed with a combined vent system and one flow indicator. You described the flow indicator as a venturi meter manufactured by Fluidic Techniques, Inc. You also enclosed with your letter a historical trend chart which shows the direction of vent gas flow to the heater. You concluded by stating that the flow indicator provides a reading every minute (at a maximum) to track the historical trend and that these charts are printed daily for your records and reporting.

As you are aware, NSPS Subpart NNN, 40 CFR §60.663(c)(1) requires the installation of a flow indicator that provides a record of vent stream flow to the boiler or process heater at least once every hour for each affected facility. Also, the flow indicator shall be installed in the vent stream from each affected facility at a point closest to the inlet of each boiler or process heater and before being joined with any other vent stream. Your staff have provided piping, and instrumentation diagrams (P&ID) for this NSPS Subpart NNN affected facility in support of your claim that the vent stream systems are "hard-piped" to a process heater with no provisions installed to automatically divert the vent stream to the atmosphere through bypass lines.

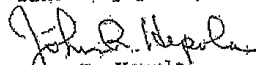
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Based on the provisions of the alternative monitoring method request, we approve the use of the provisions of NSPS Part 60 Subpart RRR, specifically 40 CFR §60.703(c)(1), for the purpose of complying with 40 CFR Part 60 Subpart NNN, §60.663(c)(1). A flow indicator is required to provide a record of vent stream flow diverted from being routed to the boiler or process heater at least once every 15 minutes for each affected facility. A flow indicator is not required where the bypass line valve is secured in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the valve is maintained in the closed position and the vent stream is not diverted through the bypass line. Recordkeeping and reporting provisions of Subpart NNN, §60.665 shall be used, to be consistent with this approval except that §60.705 shall be used for recordkeeping and reporting for the car-seal system.

This approval, based on the information submitted to EPA Region 6, is for the alternative monitoring method for the eight distillation units identified above and further described in your letters dated September 8, 1994, and January 31, 1996, which are subject to 40 CFR Part 60, Subpart NNN, in the Normal Alpha Olefin Unit 1797 at the Chevron Chemical Plant, Cedar Bayou Plant located in Baytown, Texas. This alternative monitoring method determination is specific to the above referenced affected facility. Alternative monitoring method determinations for other process units subject to NSPS are to be addressed on a request-by-request basis. Also, this alternative monitoring method determination was coordinated with EPA's Office of Compliance in Washington, D.C. and with EPA's Emission Standards Division, Organic Chemicals Group in Research Triangle Park, North Carolina.

Should you need any additional information regarding this matter, please contact me at (214) 665-7220, or Mr. Tony Robledo of my staff at (214) 665-8182.

Sincerely yours,



John R. Hepola
Chief
Air/Toxics and Inspection
Coordination Branch

cc: Troy Dalton, TNRCC
Jeanne Philquist, TNRCC
Karen Atkinson, TNRCC Region 12 Houston
Mel R. Vyvial, Chevron Chemical Company



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

SEP 17 1999

Mr. T. R. Henken
Chevron, U.S. Chemicals Division
Cedar Bayou Plant
9500 I-10 East
Baytown, TX 77521

Re: Approval of Alternative Monitoring for NSPS Subpart NNN
Normal Alpha Olefin Unit NAOU 1798
Chevron Chemical Cedar Bayou Plant

Dear Mr. Henken:

By letter dated June 23, 1999, Chevron requested approval of an alternative monitoring method under the New Source Performance Standards (NSPS) under Subpart NNN - *Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations* of Title 40, Code of Federal Regulations (CFR) Part 60 at the Chevron Chemical Cedar Bayou Plant located in Baytown, Texas. Chevron requested that monitoring provisions under NSPS Subpart RRR - *Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes* be approved as an alternative monitoring method.

The Normal Alpha Olefin Unit NAOU 1798 is currently under construction and will be subject to the requirements of both NSPS Subparts NNN and RRR. The unit includes vent streams from eleven distillation towers (T-1310, T-1370, T-1400, T-1410, T-1420, T-1430, T-1440, T-1450, T-1460, T-1470, and T-1480). All of the vent streams are hard-piped to control devices (Z-1101 flare and/or H-1530 heater). The only bypass direct to the atmosphere in the entire system is just upstream of the H-1530 heater.

Under NSPS Subpart NNN, a flow indicator that provides a record of the vent stream flow to the flare or to the boiler or process heater at least once every hour for each affected facility or distillation unit is required under paragraphs (b)(2) and (c)(1) of 40 CFR 60.663. Under NSPS Subpart RRR, a flow indicator must be installed at the entrance to any bypass line that could divert the vent stream from being routed to the flare or to the boiler or process heater or the bypass line valve must be secured in the closed position with a cap-seal or a lock-and-key type configuration under paragraphs (b)(2), (b)(2)(i), (b)(2)(ii), (c)(1), (c)(1)(i), and (c)(1)(ii) of 40 CFR 60.703. Vent stream flow monitoring requirements were promulgated under NSPS Subpart RRR that are different from those under NSPS Subpart NNN because the installation of

flow indicators as specified under NSPS Subpart NNN may be insufficient to meet the intent of the flow monitoring requirements, as EPA explained in the *Federal Register* preamble to NSPS Subpart RRR (58 FR 45962, August 31, 1993).

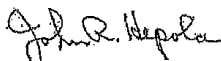
Pursuant to 40 CFR 60.13(i), we are approving the provisions of paragraphs (b)(2), (b)(2)(i), (b)(2)(ii), (c)(1), (c)(1)(i), and (c)(1)(ii) of § 60.703 of NSPS Subpart RRR as alternative monitoring to the provisions of paragraphs (b)(2) and (c)(1) of § 60.663 of NSPS Subpart NNN for vents streams from eleven distillation towers (T-1310, T-1370, T-1400, T-1410, T-1420, T-1430, T-1440, T-1450, T-1460, T-1470, and T-1480) of the Normal Alpha Olefin Unit NAOU 1798. Chevron must comply with the reporting and recordkeeping requirements under paragraphs (d)(1), (d)(2), (i)(2), and (i)(7) of § 60.705 of NSPS Subpart RRR.

The authority to implement NSPS in the state of Texas has been delegated to the Texas Natural Resource Conservation Commission (TNRCC). Therefore, please submit any future requests regarding delegated programs to the TNRCC. The TNRCC will forward any requests which require our approval to us.

By letter dated August 5, 1999, we notified the TNRCC of our intention to approve this alternative monitoring. The TNRCC did not have any objections to our approving this alternative monitoring, nor any proposed conditions to this alternative monitoring.

If you have any questions concerning the matters addressed in this letter, please contact Mr. George V. Marusak, of my staff, at (214) 665-8366.

Sincerely yours,



John R. Hepola
Chief
Air/Toxics and Inspection
Coordination Branch

cc: Jeffrey P. Greif, TNRCC
David Bower, TNRCC
Orbie Ratcliff, TNRCC Region 12 - Houston



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1446 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

Mr. T. F. Henken
Chevron, U.S. Chemicals Division
Cedar Bayou Plant
9500 I-10 East
Baytown, TX 77521

Re: Approval of Alternate Monitoring for NSPS Subpart NNN
Normal Alpha Olefin Unit NAOU 1797
Chevron Chemical Cedar Bayou Plant

Dear Mr. Henken:

By letter dated May 18, 1999, Chevron requested approval of an alternative monitoring method under the New Source Performance Standards (NSPS) under Subpart NNN - *Standards of Performance for Volatile Organic Compound (VOC) Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations* of Title 40, Code of Federal Regulations (CFR) Part 60 at the Chevron Chemical Cedar Bayou Plant located in Baytown, Texas. Chevron requested that monitoring provisions under NSPS Subpart RRR - *Standards of Performance for Volatile Organic Compound Emissions From Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes* be approved as an alternative monitoring method.

The Normal Alpha Olefin Unit NAOU 1797 includes vent streams from ten distillation towers which are subject to NSPS Subpart NNN. Five of the vent streams (T-430, T-440, T-450, T-460, and T-470) are currently routed to the H-530 heater for control. The other five vent streams (T-370, T-400, T-410, T-411, and T-420) are currently routed to the Z-101 flare for control. All of the vent streams are hard-piped to the control devices. The only bypass direct to the atmosphere in the entire system is just upstream of the H-1530 heater.

Under NSPS Subpart NNN, a flow indicator that provides a record of the vent stream flow to the flare or to the boiler or process heater at least once every hour for each affected facility or distillation unit is required under paragraphs (b)(2) and (c)(1) of 40 CFR 60.663. Under NSPS Subpart RRR, a flow indicator must be installed at the entrance to any bypass line that could divert the vent stream from being routed to the flare or to the boiler or process heater or the bypass line valve must be secured in the closed position with a car-seal or a lock-and-key type configuration under paragraphs (b)(2), (b)(2)(i), (b)(2)(ii), (c)(1), (c)(1)(i), and (c)(1)(ii) of 40 CFR 60.703. Vent stream flow monitoring requirements were promulgated under NSPS Subpart RRR that are different from those under NSPS Subpart NNN because the installation of

flow indicators as specified under NSPS Subpart NNN may be insufficient to meet the intent of the flow monitoring requirements, as EPA explained in the *Federal Register* preamble to NSPS Subpart RRR (58 FR 45962, August 31, 1993).

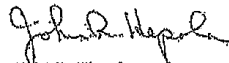
By letter dated July 18, 1996, we approved the provisions of § 60.703(c)(1) of NSPS Subpart RRR as alternative monitoring to the provisions of § 60.663(c)(1) of NSPS Subpart NNN for the vents streams from the distillation towers which are routed to the H-530 heater for control. Pursuant to 40 CFR 60.13(i), we are approving the provisions of paragraphs (b)(2), (b)(2)(i), and (b)(2)(ii) of § 60.703 of NSPS Subpart RRR as alternative monitoring to the provisions of paragraph (b)(2) of § 60.663 of NSPS Subpart NNN for the five vents streams from distillation towers (T-370, T-400, T-410, T-411, and T-420) of the Normal Alpha Olefin Unit NAOU 1797 which are routed to the Z-101 flare for control. Chevron must comply with the reporting and recordkeeping requirements under paragraphs (d)(1), (d)(2), (l)(2), and (l)(7) of § 60.705 of NSPS Subpart RRR.

The authority to implement NSPS in the state of Texas has been delegated to the Texas Natural Resource Conservation Commission (TNRCC). Therefore, please submit any future requests regarding delegated programs to the TNRCC. The TNRCC will forward any requests which require our approval to us.

By letter dated October 26, 1999, we notified the TNRCC of our intention to approve this alternative monitoring. The TNRCC did not have any objections to our approving this alternative monitoring, nor any proposed conditions to this alternative monitoring.

If you have any questions concerning the matters addressed in this letter, please contact Mr. George V. Marusak, of my staff, at (214) 665-8366.

Sincerely yours,



John R. Hepola
Chief
Air/Toxics and Inspection
Coordination Branch

cc: Jeffrey P. Greif, TNRCC
David Bower, TNRCC
Richard Flannery, TNRCC Region 12 - Houston



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS TX 75202-2733

March 30, 2015

Mr. Jerome A. Jarboe
Environmental Supervisor
Chevron Phillips Chemical Company LP
Cedar Bayou Plant
9500 I-10 East, Exit 796
Baytown, TX 77521-9570

Re: Cedar Bayou Plants
AFS No. 4820100018
Normal Alpha Olefins Units 1797 and 1798
Request for Alternate Method of Monitoring
40 CFR 60 Subpart NNN and Subpart RRR
Alternative to Flow Indicator Requirements

Dear Mr. Jarboe:

This letter is in response to the request dated August 2, 2013, for waiver and alternate monitoring under the New Source Performance Standards (NSPS) at the Chevron Phillips Chemical Cedar Bayou facility located in Baytown, Texas. Chevron Phillips has requested a waiver of the NSPS process vent by-pass monitoring requirement under 40 CFR Subpart NNN (§60.663) and Subpart RRR (40 CFR §60.703). Chevron Phillips has proposed to follow the requirements for by-pass monitoring in 40 CFR 63 Subpart SS. Chevron Phillips makes this request to substitute the monitoring requirements for all the affected process vent by-passes in the Normal Alpha Olefins Units 1797 and 1798 to the requirements 40 CFR Subpart SS. Currently, other process units at the Cedar Bayou Plant are subject to 40 CFR 63 Subpart SS as referenced by 40 CFR Subpart YY (Generic MACT) and Subpart FFFF (Miscellaneous Organic NESHAP).

Through rule making, EPA allows the process vents and process vent by-passes that are subject 40 CFR Subparts NNN and RRR to comply only with the process vent requirements of 40 CFR Subpart SS when applicable. Taking this into account, the request to substitute the

process vent by-pass monitoring in the affected units to the requirements of 40 CFR Subpart SS provides at least an equivalent level of protection to the requirements of 40 CFR Subparts NNN and RRR. Therefore, the Environmental Protection Agency Region 6 (EPA) approves your request to implement the 40 CFR 63 Subpart SS monitoring requirements in 40 CFR §63.983(a)(3) in lieu of the requirements in 40 CFR §60.663 and 40 §CFR 60.703. In addition, Chevron Phillips must also comply with the associated record keeping requirements of 40 CFR §63.998(d)(1). Chevron Phillips is required to continue to comply with 40 CFR §60.705(s) to maintain a copy of the schematic diagram onsite for the life of the system to ensure that the affected vent streams are routed to appropriate control devices under this approval. This approval covers only the process vent by-passes subject to the requirements of 40 CFR Subpart NNN or RRR in the Normal Alpha Olefins Units 1797 and 1798.

This information is based upon the information submitted in your request. If any new information becomes available or process unit operations are changed, this determination may become void and a new determination may be necessary. If you have any questions, please contact Mr. Craig Lutz, of my staff, at (214) 665-2190.

Sincerely,



Steve Thompson
Associate Director
Air/Toxic Inspection and
Coordination Branch

cc: Michael de La Cruz
Air Enforcement Section Manager
Texas Commission on Environmental Quality

Appendix A

| | |
|---------------------------|------------|
| Acronym List | 302 |
|---------------------------|------------|

Acronym List

The following abbreviations or acronyms may be used in this permit:

| | |
|------------------------|---|
| ACFM | actual cubic feet per minute |
| AMOC | alternate means of control |
| ARP | Acid Rain Program |
| ASTM | American Society of Testing and Materials |
| B/PA | Beaumont/Port Arthur (nonattainment area) |
| CAM | Compliance Assurance Monitoring |
| CD | control device |
| COMS | continuous opacity monitoring system |
| CVS | closed-vent system |
| D/FW | Dallas/Fort Worth (nonattainment area) |
| DR | Designated Representative |
| ELP | El Paso (nonattainment area) |
| EP | emission point |
| EPA | U.S. Environmental Protection Agency |
| EU | emission unit |
| FCAA Amendments | Federal Clean Air Act Amendments |
| FOP | federal operating permit |
| GF | grandfathered |
| gr/100 scf | grains per 100 standard cubic feet |
| HAP | hazardous air pollutant |
| H/G/B | Houston/Galveston/Brazoria (nonattainment area) |
| H ₂ S | hydrogen sulfide |
| ID No. | identification number |
| lb/hr | pound(s) per hour |
| MMBtu/hr | Million British thermal units per hour |
| MRRT | monitoring, recordkeeping, reporting, and testing |
| NA | nonattainment |
| N/A | not applicable |
| NADB | National Allowance Data Base |
| NO _x | nitrogen oxides |
| NSPS | New Source Performance Standard (40 CFR Part 60) |
| NSR | New Source Review |
| ORIS | Office of Regulatory Information Systems |
| Pb | lead |
| PBR | Permit By Rule |
| PM | particulate matter |
| ppmv | parts per million by volume |
| PSD | prevention of significant deterioration |
| RO | Responsible Official |
| SO ₂ | sulfur dioxide |
| TCEQ | Texas Commission on Environmental Quality |
| TSP | total suspended particulate |
| TVP | true vapor pressure |
| U.S.C. | United States Code |
| VOC | volatile organic compound |

Appendix B

Major NSR Summary Table304

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|---------------------------------|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 116A | IFR Tank M-144 | VOC | 0.11 | --- | 6 | 6, 8 | |
| 116B | IFR Tank M-145 | VOC | 0.11 | --- | 6 | 6, 8 | |
| 116C | Fixed Roof Tank M-107 | VOC | 2.2 | --- | 6 | 6, 8 | |
| 116D | Fixed Roof Tank M-137 | VOC | 2.2 | --- | 6 | 6, 8 | |
| TKCap-O | EPNs 116A, 116B, 116C, and 116D | VOC | 2.42 (8) | 0.24 | 6 | 6, 8 | |
| 117L | IFR Tank TK-808 | VOC | 0.15 | --- | 6 | 6, 7 | |
| 1798-04 | IFR Tank TK-1808 | VOC | 0.15 | --- | 6 | 6, 7 | |
| TKCap-A | EPN's 117L & 1798-04 | VOC | 0.15 (6) | 0.37 | 6 | 6, 7 | |
| 117Q | IFR Tank TK-800 | VOC | 0.88 | 2.39 | 6 | 6, 18 | |
| 126A | IFR Tank TK-1 | VOC | 0.47 | 0.58 | 6 | 6 | |
| 1798-01 | IFR Tank TK-1800 | VOC | 0.63 | 1.92 | 6 | 6, 18 | |
| 1798-03 | IFR Tank TK-1806 | VOC | 0.45 | 1.19 | 6 | 6, 18 | |
| 117F | IFR Tank TK-36 | VOC | 0.5 | --- | 6 | 6, 7 | |
| 117G | IFR Tank TK-37 | VOC | 0.5 | --- | 6 | 6, 7 | |
| TKCap-B | EPN's 117F & 117G | VOC | 0.50 (6) | 2.39 | 6 | 6, 7 | |
| 116E | Fixed Roof Tank M-138 | VOC | 0.05 | 0.01 | 6 | 6 | |
| 117J | Fixed Roof Tank TK-40 | VOC | 0.01 | 0.01 | 6 | 6 | |
| 126C | Fixed Roof Tank TK-10 | VOC | 5.69 | --- | 6 | 6, 7, 9 | |
| 127Q | Fixed Roof Tank TK-15 | VOC | 5.69 | --- | 6 | 6, 7, 9 | |
| 126E | Fixed Roof Tank TK-23 | VOC | 5.69 | --- | 6 | 6, 7, 9 | |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|--|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 127EE | Fixed Roof Tank TK-29 | VOC | 5.69 | --- | 6 | 6, 7, 9 | |
| 127FF | Fixed Roof Tank TK-30 | VOC | 5.69 | --- | 6 | 6, 7, 9 | |
| 127GG | Fixed Roof Tank TK-32 | VOC(6) | 5.69 | --- | 6 | 6, 7, 9 | |
| TKCap-C | EPN's 126C,127Q,126E, 127EE, 127FF & 127GG | VOC | 5.69 (6) | 0.86 | 6 | 6, 7, 9 | |
| 127O | Fixed Roof Tank TK-11 | VOC | 0.01 | --- | 6 | 6, 7 | |
| 127T | Fixed Roof Tank TK-18 | VOC | 0.01 | --- | 6 | 6, 7 | |
| 127HH | Fixed Roof Tank TK-33 | VOC | 0.01 | --- | 6 | 6, 7 | |
| 127II | Fixed Roof Tank TK-34 | VOC | 0.01 | --- | 6 | 6, 7 | |
| TKCap-D | EPN's 127O, 127T,127HH & 127II | VOC | 0.01 (6) | 0.01 | 6 | 6, 7 | |
| 127R | Fixed Roof Tank TK-16 | VOC | 3.49 | 0.48 | 6 | 6, 9 | |
| 127S | Fixed Roof Tank TK-17 | VOC | 0.34 | --- | 6 | 6, 7 | |
| 127Y | Fixed Roof Tank TK-24A | VOC | 0.34 | --- | 6 | 6, 7 | |
| TKCap-E | EPN's 127S & 127Y | VOC | 0.34 (6) | 0.01 | 6 | 6, 7 | |
| 127U | Fixed Roof Tank TK-19 | VOC | 0.03 | --- | 6 | 6, 7 | |
| 117H | Fixed Roof Tank TK-38 | VOC | 0.03 | --- | 6 | 6, 7 | |
| TKCap-F | EPN's 127U & 117H | VOC | 0.03(6) | 0.01 | 6 | 6, 7 | |
| 127UU | Fixed Roof Tank TK-28 | VOC | 0.77 | --- | 6 | 6, 7 | |
| 126B | Fixed Roof Tank TK-2A | VOC | 0.77 | --- | 6 | 6, 7 | |
| 127TT | Fixed Roof Tank TK-60 | VOC | 0.77 | --- | 6 | 6, 7 | |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|----------------------------------|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| TKCap-G | EPN's 127UU, 126B & 127TT | VOC | 0.77(6) | 1.21 | 6 | 6, 7 | |
| 127Z | Fixed Roof Tank TK-25A | VOC | 0.14 | --- | 6 | 6, 7 | |
| 127AA | Fixed Roof Tank TK-25B | VOC | 0.14 | --- | 6 | 6, 7 | |
| TKCap-H | EPN's 127Z & 127AA | VOC | 0.14 (6) | 0.01 | 6 | 6, 7 | |
| 127CC | Fixed Roof Tank TK-27 | VOC | 0.14 | 0.01 | 6 | 6 | |
| 117I | Fixed Roof Tank TK-39 | VOC | 0.06 | 0.01 | 6 | 6 | |
| 127C | Fixed Roof Tank TK-4A | VOC | 3.49 | 0.05 | 6 | 6, 9 | |
| 127D | Fixed Roof Tank TK-4B | VOC | 3.49 | 0.04 | 6 | 6, 9 | |
| 127PP | Fixed Roof Tank TK-54 | VOC | 1.34 | 0.01 | 6 | 6 | |
| 117E | Fixed Roof Tank TK-55 | VOC | 17.3 | --- | 6 | 6, 7 | |
| 117U | Fixed Roof Tank TK-56 | VOC | 17.3 | --- | 6 | 6, 7 | |
| TKCap-I | EPN's 117E & 117U | VOC | 17.30(6) | 0.04 | 6 | 6, 7 | |
| 117M | Fixed Roof Tank TK-812 | VOC | 0.8 | --- | 6 | 6 | |
| 1798-06 | Fixed Roof Tank TK-1812 | VOC | 0.37 | --- | 6 | 6 | |
| 127E | Fixed Roof Tank TK-5A | VOC | 0.67 | --- | 6 | 6 | |
| 127F | Fixed Roof Tank TK-5B | VOC | 0.67 | --- | 6 | 6 | |
| TKCap-J | EPN's 117M, 11798-06 127E & 127F | VOC | --- | 0.26 | 6 | 6 | |
| 117N | Fixed Roof Tank TK-814 | VOC | 0.11 | --- | 6 | 6 | |
| 1798-07 | Fixed Roof Tank TK-1814 | VOC | 0.11 | --- | 6 | 6 | |
| 127G | Fixed Roof Tank TK-6A | VOC | 0.07 | --- | 6 | 6 | |
| 127H | Fixed Roof Tank TK-6B | VOC | 0.07 | --- | 6 | 6 | |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|--|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| TKCap-K | EPN's 117N, 1798-07, 127G & 127H | VOC | --- | 0.02 | 6 | 6 | |
| 117O | Fixed Roof Tank TK-820 | VOC | 0.01 | 0.01 | 6 | 6 | |
| 117P | Fixed Roof Tank TK-822A | VOC | 0.01 | --- | 6 | 6, 7 | |
| 117T | Fixed Roof Tank TK-840 | VOC | 0.01 | --- | 6 | 6, 7 | |
| TKCap-L | EPN's 117O, 117P, & 117T | VOC | 0.01(6) | 0.01 | 6 | 6, 7 | |
| 117R | Fixed Roof Tank TK-830 | VOC | 0.07 | --- | 6 | 6, 7 | |
| 127N | Fixed Roof Tank TK-9B | VOC | 0.07 | --- | 6 | 6, 7 | |
| TKCap-M | EPN's 117R & 127N | VOC | 0.07 (6) | 0.01 | 6 | 6, 7 | |
| 1798-05 | Fixed Roof Tank TK-1810 | VOC | 1.24 | 1.08 | 6 | 6, 18 | |
| 1798-08 | Fixed Roof Tank TK-1816 | VOC | 0.01 | 0.01 | 6 | 6 | |
| 1798-09 | Fixed Roof Tank TK-1818 | VOC | 0.03 | 0.01 | 6 | 6 | |
| 1798-10 | Fixed Roof Tank TK-1820 | VOC | 0.02 | --- | 6 | 6, 7 | |
| 127M | Fixed Roof Tank TK-9A | VOC | 0.02 | --- | 6 | 6, 7 | |
| TKCap-N | EPN's 1798-05, 1798-08, 1798-09, 1798-10, & 127M | VOC | 0.02 (6) | 0.01 | 6 | 6, 7 | |
| 1798-11 | Fixed Roof Tank TK-1822 | VOC | 0.01 | 0.01 | 6 | 6 | |
| P-142-2 | Fixed Roof Tank Diesel 142 | VOC | 0.03 | 0.01 | 6 | 6 | |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|--|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| SYS-910-D | Fixed Roof Tank Diesel 910 | VOC | 0.03 | 0.01 | 6 | 6 | |
| P-95D | Fixed Roof Tank Diesel 95 | VOC | 0.03 | 0.01 | 6 | 6 | |
| 1798-12 | Catalyst Storage Tanks TK-710A/B, TK-1710A/B | VOC | 1.7 | 0.11 | 6 | 6 | |
| 120 | Heater H-3 | VOC | 0.07 | 0.3 | | 3, 18 | |
| | | NOx | 0.75 | 1.98 | | 3, 18, 25 | |
| | | CO | 1.03 | 4.51 | | 3, 18, 25 | |
| | | PM | 0.1 | 0.41 | | 3, 18 | |
| | | PM10 | 0.1 | 0.41 | | 3, 18 | |
| | | PM2.5 | 0.1 | 0.41 | | 3, 18 | |
| | | SO2 | 0.01 | 0.04 | | 3, 4 | |
| 135 | Heater H-530 | VOC | 0.39 | 1.42 | 14 | 3, 14, 18 | 14 |
| | | NOx | 1.78 | 6.57 | 14 | 3, 14, 18, 25 | 14 |
| | | CO | 5.87 | 21.64 | | 3, 18, 25 | |
| | | PM | 0.54 | 1.96 | | 3, 18 | |
| | | PM10 | 0.54 | 1.96 | | 3, 18 | |
| | | PM2.5 | 0.54 | 1.96 | | 3, 18 | |
| | | SO2 | 0.05 | 0.15 | | 3, 4 | |
| 1798-23 | Dowtherm Heater H-1530 | VOC | 0.49 | 1.91 | 14 | 3, 14, 18 | 14 |
| | | NOx | 1.8 | 7.06 | 14 | 3, 14, 18, 25 | 14 |
| | | CO | 7.42 | 29.04 | | 3, 18, 25 | |
| | | PM | 0.68 | 2.63 | | 3, 18 | |
| | | PM10 | 0.68 | 2.63 | | 3, 18 | |
| | | PM2.5 | 0.68 | 2.63 | | 3, 18 | |
| | | SO2 | 0.06 | 0.21 | | 3, 4 | |
| 1798-30 | Process Fugitives P-1798 | VOC | 7.58 | 33.16 | 11, 24 | 11, 18 | 11 |
| F-130 | Fugitive Emissions P-1791 | VOC | 6.45 | 28.23 | 12, 24 | 12, 18 | 12 |
| 1798-30-LAER | Process Fugitives- LAER P-1798 | VOC | 0.13 | 0.55 | 13, 24 | 13 | 13 |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|---|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| F-130-LAER | Fugitive Emissions-LAER P-1791 | VOC | 0.03 | 0.13 | 13, 24 | 13 | 13 |
| 128B | C10+ Loading L-128B | VOC | 4.88 | --- | 10 | 10 | |
| 1798-40 | Product Loading 1798-LOAD | VOC | 4.88 | --- | 10 | 10 | |
| 128D | Product Drumming Drum | VOC | 4.88 | --- | 10 | 10 | |
| Loading Cap | EPN's 128B, 1798-40 & 128D | VOC | 4.88 (7) | 2.21 | 10 | 10 | 10 |
| 1798-22 | Flare (Routine Only) Z-1101 | VOC | 342.58 | --- | 5, 15, 20 | 5, 15, 18, 20 | 15 |
| | | NOx | 17.72 | --- | 5, 15 | 5, 15, 18 | 15 |
| | | CO | 127.99 | --- | 5, 15 | 5, 15, 18 | 15 |
| 1798-22 | Flare (MSS contribution only) Z-1101 | VOC | 150 | --- | 5, 15, 20, 22, 23 | 5, 15, 20, 21, 22 | 15 |
| | | NOx | 20.7 | --- | 5, 15 | 5, 15, 21 | 15 |
| | | CO | 106.64 | --- | 5, 15 | 5, 15, 21 | 15 |
| 1798-22 | Flare (Routine and MSS Annual Emissions Cap) Z-1101 | VOC | --- | 18.46 | 5, 15, 20, 22, 23 | 5, 15, 20, 21, 22 | 15 |
| | | NOx | --- | 2.52 | 5, 15 | 5, 15, 21 | 15 |
| | | CO | --- | 17 | 5, 15 | 5, 15, 21 | 15 |
| 136 | Flare (Routine Only) SYS-740 | VOC | 6.01 | --- | 5 | 5 | |
| | | NOx | 0.91 | --- | 5 | 5 | |
| | | CO | 3.62 | --- | 5 | 5 | |
| 136 | Flare | VOC | 35.65 | --- | 5, 15, 20, 22, 23 | 5, 15, 20, 21, 22 | 15 |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|--|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| | (MSS contribution only) SYS-740 | NOx | 9.99 | --- | 5, 15 | 5, 15, 21 | 15 |
| | | CO | 39.77 | --- | 5, 15 | 5, 15, 21 | 15 |
| 136 | Flare (Routine and MSS Annual Emissions Cap) SYS-740 | VOC | --- | 2.68 | 5, 15, 20, 22, 23 | 5, 15, 18, 20, 21, 22 | 15 |
| | | NOx | --- | 0.71 | 5, 15 | 5, 15, 18, 21 | 15 |
| | | CO | --- | 2.8 | 5, 15 | 5, 15, 18, 21 | 15 |
| | | | | | | | |
| 110 | Flare (Routine Only) Z-101 | VOC | 87.88 | -- | 5 | 5 | |
| | | NOx | 5.23 | -- | 5 | 5 | |
| | | CO | 37.69 | -- | 5 | 5 | |
| 110 | Flare (MSS contribution only) Z-101 | VOC | 100 | -- | 5, 15, 20, 22, 23 | 5, 15, 20, 21, 22 | 15 |
| | | NOx | 13.8 | -- | 5, 15 | 5, 15, 21 | 15 |
| | | CO | 71.09 | -- | 5, 15 | 5, 15, 21 | 15 |
| 110 | Flare (Routine and MSS Annual Emissions Cap) Z-101 | VOC | -- | 28.85 | 5, 15, 20, 22, 23 | 5, 15, 18, 20, 21, 22 | 15 |
| | | NOx | -- | 6.38 | 5, 15 | 5, 15, 18, 21 | 15 |
| | | CO | -- | 44.39 | 5, 15 | 5, 15, 18, 21 | 15 |
| 129 | Flare (Routine Only) Z-251 | VOC | 22.63 | -- | 5 | 5 | |
| | | NOx | 4.84 | -- | 5 | 5 | |
| | | CO | 24.91 | -- | 5 | 5 | |
| | | PM | 0.13 | -- | 5 | 5 | |
| | | PM2.5 | 0.13 | -- | 5 | 5 | |
| | | PM10 | 0.13 | -- | 5 | 5 | |
| | | SO2 | 0.01 | -- | 4 | 4 | 4 |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|--|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 129 | Flare (MSS contribution only) Z-251 | VOC | 32.71 | -- | 5, 15, 20, 22, 23 | 5, 15, 20, 21, 22 | 15 |
| | | NOx | 7.59 | -- | 5, 15 | 5, 15, 21 | 15 |
| | | CO | 39.08 | -- | 5, 15 | 5, 15, 21 | 15 |
| 129 | Flare (Routine and MSS Annual Emissions Cap) Z-251 | VOC | -- | 7.04 | 5, 15, 20, 22, 23 | 5, 15, 18, 20, 21, 22 | 15 |
| | | NOx | -- | 5.82 | 5, 15 | 5, 15, 18, 21 | 15 |
| | | CO | -- | 29.95 | 5, 15 | 5, 15, 18, 21 | 15 |
| | | PM | -- | 0.02 | 5, 15 | 5, 15, 21 | 15 |
| | | PM2.5 | -- | 0.02 | 5, 15 | 5, 15, 21 | 15 |
| | | PM10 | -- | 0.02 | 5, 15 | 5, 15, 21 | 15 |
| | | SO2 | -- | 0.02 | 4, 15 | 4, 15, 21 | 4, 15 |
| 134A | API Separator G-202B | VOC | 2.02 | 8.84 | | 18 | |
| 134AA | API Separator G-202A | VOC | 2.02 | 8.84 | | 18 | |
| 134B | Equalization Pond G-207 | VOC | 0.13 | 0.55 | | 18 | |
| 150 | Cooling Tower Z-104 | VOC | 0.63 | 2.76 | 16 | 16, 18 | |
| 150A | Cooling Tower Z-201 | VOC | 0.34 | 1.55 | 17 | 17, 18 | |
| | | PM | 0.2 | 2.04 | 17 | 17, 18 | |
| | | PM2.5 | 0.2 | 2.04 | 17 | 17, 18 | |
| | | PM10 | 0.2 | 2.04 | 17 | 17, 18 | |
| 1798-20 | Cooling Tower Z-1104 | VOC | 0.63 | 2.76 | 16 | 16, 18 | |
| SYS-910-1 | Electric Power Generator Engine SYS-910 | VOC | 1.35 | 0.59 | | | |
| | | NOx | 16.59 | 7.26 | | 18 | |
| | | CO | 3.57 | 1.57 | | 18 | |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|---------------------------------|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| | | PM | 1.18 | 0.52 | | | |
| | | PM10 | 1.18 | 0.52 | | | |
| | | PM2.5 | 1.18 | 0.52 | | | |
| | | SO2 | 1.1 | 0.48 | | | |
| P-142-1 | Stormwater Pump Engine P-142 | VOC | 0.41 | 0.18 | | | |
| | | NOx | 5.05 | 2.21 | | 18 | |
| | | CO | 1.09 | 0.48 | | | |
| | | PM | 0.36 | 0.16 | | | |
| | | PM10 | 0.36 | 0.16 | | | |
| | | PM2.5 | 0.36 | 0.16 | | | |
| | | SO2 | 0.33 | 0.15 | | | |
| P-95A-1 | Stormwater Pump Engine P-95A | VOC | 0.31 | 0.01 | | | |
| | | NOx | 3.88 | 0.16 | | | |
| | | CO | 0.84 | 0.03 | | | |
| | | PM | 0.28 | 0.01 | | | |
| | | PM10 | 0.28 | 0.01 | | | |
| | | PM2.5 | 0.28 | 0.01 | | | |
| | | SO2 | 0.26 | 0.01 | | | |
| P-95B-1 | Stormwater Pump Engine P-95B | VOC | 0.31 | 0.01 | | | |
| | | NOx | 3.88 | 0.16 | | | |
| | | CO | 0.84 | 0.03 | | | |
| | | PM | 0.28 | 0.01 | | | |
| | | PM10 | 0.28 | 0.01 | | | |
| | | PM2.5 | 0.28 | 0.01 | | | |
| | | SO2 | 0.26 | 0.01 | | | |
| F-MSSNAO | MSS Fugitive Emissions F-MSSNAO | VOC | 4.65 | 2.57 | 21, 22, 23 | 21, 22, 23 | |
| | | PM | 0.02 | 0.01 | 21 | 21 | |
| | | PM10 | 0.02 | 0.01 | 21 | 21 | |
| | | PM2.5 | 0.02 | 0.01 | 21 | 21 | |

Major NSR Summary Table

| Permit Number: 37063 and N178 | | Issuance Date: 1/30/2015 | | | | | |
|-------------------------------|---|--------------------------|----------------|--------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr | TPY(4) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| TK-2806 | 1-Hexene Tank IFR Tank TK-2806 | VOC | 0.54 | 1.2 | 6 | 6, 18 | |
| TK-2807 | 1-Hexene Tank IFR Tank TK-2807 | VOC | 0.54 | 1.2 | 6 | 6, 18 | |
| TK-2808 | Intermediate Olefins Tank Fixed Roof Tank TK-2808 | VOC | 0.44 | 1.1 | 6 | 6, 18 | |
| TK-2805 | Cyclohexane (Diluent) Tank IFR Tank TK-2805 | VOC | 0.31 | 0.2 | 6 | 6 | |
| LOAD-1 | Truck/Railcar Loading Fugitives LOAD-1 | VOC | 2.4 | 2 | | 18 | |
| TFE | Thin Film Evaporator TFE | VOC | 0.3 | 1.3 | | 18 | |
| F-1891 | Fugitives F-1891 | VOC | 1.2 | 5.3 | 12, 24 | 12, 18 | 12 |
| F-MSSHU | MSS Fugitives F-MSSHU | VOC | 19.5 | 0.08 | 21, 22, 23 | 21, 22, 23 | |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Compliance with this emission rate shall be demonstrated as provided for in Special Condition 7.
- (7) Compliance with this emission rate shall be demonstrated as provided for in Special Condition 10.K.
- (8) Compliance with this emission rate shall be demonstrated as provided for in Special Condition 8.

Major NSR Summary Table

| Permit Number: 135086 and N224 | | | Issuance Date: 05/13/2016 | | | | |
|--|---|--------------------------|---------------------------|---------|-------------------------------------|----------------------------|------------------------|
| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | | Monitoring and Testing Requirements | Recordkeeping Requirements | Reporting Requirements |
| | | | lb/hr (4) | TPY (5) | Spec. Cond. | Spec. Cond. | Spec. Cond. |
| 1796-10A 1798-22 1799-20 45 110 129 | Flare Group (6) FS-541 Z-1101 FS-9004 X-901 Z-101 Z-251 | VOC | 135.62 | 34.33 | 2, 3, 5, 6 | 2, 3, 5, 6, 7 | 3 |
| | | NO _x | 16.04 | 4.06 | 2, 3, 5, 6 | 2, 3, 5, 6, 7 | 3 |
| | | CO | 103.91 | 26.3 | 2, 3, 5, 6 | 2, 3, 5, 6, 7 | 3 |

(1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.

(2) Specific point source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

CO - carbon monoxide

(4) Compliance with hourly emission limits (pounds per hour) is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs.

(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period and is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs

(6) Purge gas may be vented to a combination of one or more flares in the designated group as described in Special Conditions Attachment B and permit application representations.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
AIR QUALITY PERMIT



A Permit Is Hereby Issued To
Chevron Phillips Chemical Company LP
Authorizing the Construction and Operation of
Chevron Phillips Chemical Cedar Bayou Plant
Located at Baytown, Harris County, Texas
Latitude 29° 49' 27" Longitude -94° 55' 14"

Permit: 37063 and N178

Amendment Date : January 30, 2015

Expiration Date: October 3, 2018

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code 116.116 (30 TAC 116.116)]
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC 116.120(a), (b) and (c)]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC 116.115(b)(2)(B)(iii)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

Special Conditions

Permit Number 37063 and N178

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and the facilities covered by this permit are authorized to emit, subject to the emission rate limits on that table, and other operating conditions specified in this permit. **(09/02)**
2. Non-fugitive emissions from relief valves, safety valves, or rupture discs of gases containing volatile organic compounds (VOC) at a concentration of greater than 1 percent are not authorized by this permit unless authorized on the maximum allowable emission rates table (MAERT). Any releases directly to atmosphere from relief valves, safety valves, or rupture discs of gases containing VOC at a concentration greater than 1 weight percent are not consistent with good practice for minimizing emissions. **(09/02)**

Operational Limitations, Work Practices, and Plant Design

3. The maximum and average annual firing rates and emissions of nitrogen oxides (NO_x) from the heaters covered under this permit shall not exceed the following:

| <u>Heater</u> | <u>Max Hourly Firing Rate</u> | <u>Average Annual Firing Rate</u> | <u>NO_x Emission Factor</u> |
|---------------|-----------------------------------|---------------------------------------|--|
| H-3 | 12.5 MMBtu | 12.5 MMBtu | 0.060 lb/MMBtu (hourly) 0.036 lb/MMBtu (annual) |
| H-530 | 71.2 MMBtu | 60.0 MMBtu | 0.025 lb/MMBtu |
| H-1530 | 90.0 MMBtu | 80.5 MMBtu | 0.02 lb/MMBtu |

Records of fuel consumption shall be kept to demonstrate compliance with the maximum and average annual firing rates. Compliance with this condition shall also demonstrate compliance with the MAERT emission limits for these heaters. **(01/15)**

4. Fuel gas combusted at this facility shall be sweet natural gas containing no more than 5 grains of total sulfur per 100 dry standard cubic feet, except that Heaters H-3, H-530, and H-1530 may also be fired with Ethylene Unit tail gas. **(06/08)**

Flares

5. Flares shall be designed and operated in accordance with the following requirements:
- A. The flare systems, with the exception of flare SYS-740 (EPN 136), shall be designed such that the combined assist natural gas and waste stream to each flare meets the Title 40 Code of Federal Regulations § 60.18 (40 CFR § 60.18) specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

With the exception of flare SYS-740 (EPN136), the heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

- B. The combined assist natural gas and waste stream to flare SYS-740 shall have a minimum heat content of 845 Btu/scf and the velocity out of the flare head shall be sonic or less.
- C. The flares shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications
- D. Flares shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. Such operation shall be ensured by the use of steam (or air) assist to the flare, except for flare SYS-740 (EPN 136), which is a sonic flare.
- E. For Z-1101, Z-101, and Z-251 Flares: **(01/15)**

The permit holder shall install a continuous flow monitor and composition analyzer. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken and recorded at least once every 15 minutes and the average hourly flow and composition shall be recorded each hour. Records shall be maintained of all monitoring, testing, and calibrations performed.

The monitors shall be calibrated on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg.

Calibration of the analyzer shall follow the procedures and requirements of Section 10.0 of 40 CFR Part 60, Appendix B, Performance Specification 9, as amended through October 17, 2000 (65 FR 61744), except that the multi-point calibration procedure in Section 10.1 of Performance Specification 9 shall be performed at least once every calendar quarter instead of once every month, and the mid-level calibration check procedure in Section 10.2 of Performance Specification 9 shall be performed at least once every calendar week instead of once every 24 hours. The calibration gases used for calibration procedures shall be in accordance with Section 7.1 of Performance Specification 9. Net heating value of the gas combusted in the flare shall be calculated according to the equation given in 40 CFR § 60.18(f) (3) as amended through October 17, 2000 (65 FR 61744).

The monitors and analyzers shall operate as required by this section at least 95 percent of the time when the flare is operational, averaged over a 12-calendar month period. The percent measurement data availability shall be calculated as the total flare operating hours for which valid quality-assured data was recorded divided by the total flare operating hours. Time required for normal calibration checks is not considered downtime for purposes of this calculation.

The average hourly flared gas net heating value and actual exit velocity determined in accordance with 40 CFR § 60.18(f) (4) shall be recorded at least once every hour based on 15 minutes samples.

As an alternative:

The holder of this permit shall monitor and record the flare header natural gas purge rates to ensure there will always be sufficient heat content for any waste stream gas velocity. The minimum flare header purge rates shall be established during the required initial demonstration of compliance testing. The natural gas purge rates shall be controlled and monitored by rotameters or equivalent device. Weekly inspections shall be conducted to ensure minimum rotameter settings are maintained.

Records of the weekly inspections and any corrections made to adjust natural gas flow rate shall be kept. **(06/08)**

6. Storage of VOC

- A. The control requirements specified in paragraphs B through F of this condition shall not apply (1) where the VOC has an aggregate partial pressure of less than 0.5 psia at the maximum feed temperature or 95°F, whichever is greater, or (2) to storage tanks smaller than 25,000 gallons. **(3/14)**
- B. An internal floating deck or “roof” or equivalent control shall be installed in all tanks. The floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof: (1) a liquid-mounted seal, (2) two continuous seals mounted one above the other, or (3) a mechanical shoe seal. Installation of equivalent controls requires prior review and approval by the Executive Director of TCEQ.
- C. An open-top tank containing a floating roof (external floating roof tank) which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal, and the secondary seal is rim-mounted. A weather shield is not approved as a secondary seal unless specifically reviewed and determined to be vapor-tight.
- D. For any tank subject to 40 CFR § Part 60, Subpart Kb and equipped with a floating roof, the holder of this permit shall follow 40 CFR § 60.113b, Testing and Procedures, to verify seal integrity. Additionally, the permit holder shall follow 40 CFR § 60.115b, Reporting and Recordkeeping Requirements, to provide records of the dates seals were inspected, seal integrity, and corrective actions taken.
- E. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650, or an equivalent degree of flotation, except that an internal floating roof need not be designed to meet rainfall support requirements and the materials of construction may be steel or other materials.
- F. Except for labels, logos, etc. not to exceed 15 percent of the tank total surface area, uninsulated and/or unheated tank exterior surfaces exposed

to the sun shall be white or unpainted aluminum. Storage tanks must be equipped with permanent submerged fill pipes or bottom fill. **(3/14)**

- G. The permit holder shall maintain an emissions record which includes calculated emissions of VOC from all storage tanks during the previous calendar month and the past consecutive 12 month period. The record shall include tank identification number, control method used, tank capacity in gallons, name of the material stored, VOC molecular weight, VOC monthly average temperature in degrees Fahrenheit, VOC vapor pressure at the monthly average material temperature in psia, VOC throughput for the previous month and year-to-date. Records of VOC monthly average temperature are not required to be kept for unheated tanks which receive liquids that are at or below ambient temperatures.

Emissions from tanks shall be calculated using the methods that were used to determine the MAERT limits in the permit application (PI-1 dated June 27, 2013). Sample calculations from the application shall be attached to a copy of this permit at the plant site.

The permit holder shall maintain a record of tank throughput for the previous month and the past consecutive 12 month period for each tank. **(1/15)**

7. For the purpose of demonstrating compliance with short-term emission rate caps, storage tanks are assigned to groups as represented in the Confidential Tank Throughput Summary submitted December 23, 2013. The combined hourly throughput for all tanks within a given group shall be limited as documented in the Confidential Tank Throughput Summary. **(3/14)**
8. Recovered Oil Storage Tanks M-144 (EPN 116A) and M-145 (EPN 116B) shall be equipped with internal floating roofs and seals that qualify as best available control technology. Tanks shall be equipped with internal floating roofs and seals prior to the start-up of NAOU 1798. Tanks M-144 (EPN 116A), M-145 (EPN 116B), M-107 (EPN 116C), and M-137 (EPN 116D) shall be limited to the short-term throughput rates as represented in the Confidential Attachments submitted May 27, 2014. **(01/15)**
9. The filling rate of Decene Storage Tanks TK-4A, TK-4B, TK-10, TK-15, TK-16, TK 23, TK-29, TK-30, and TK-32 (EPNs:127C, 127D, 126C, 127Q, 127R, 126E, 127EE, 127FF, and 127GG, respectively) shall not exceed a total net filling rate of 300 gallons per minute over any consecutive 60 minute period. **(3/14)**

Loading of VOC

10. Loading operations shall be as follows:

A. Loading of products from NAO Units 1797 and 1798 other than butene into railcars and tank trucks shall be limited to the max hourly and annual rates specified in the Confidential portion of the permit application, as submitted on November 13, 2013. **(3/14)**

B. Loading of butene into railcars and tank trucks shall be limited to the following when vapors are directed to flares:

| <u>Source</u> | <u>max gallons/hour</u> | <u>annual gallons</u> |
|---------------|-------------------------|-----------------------------|
| railcar | 19,200 gallons per hour | 32,060,000 gallons per year |
| tank truck | 17,000 gallons per hour | 10,000,000 gallons per year |

When loading vapors are sent to EU-1592 for recovery, these limits do not apply.

C. Loading of hexene from the HU-1891 Unit (tanks TK-2806 and TK-2807) shall be limited to the following:

| <u>Source</u> | <u>max gallons/hour</u> | <u>annual gallons</u> |
|---------------|-------------------------|------------------------------|
| tank truck | 48,000 gallons per hour | 102,000,000 gallons per year |

(9/11)

D. Loading of intermediate olefins from the HU-1891 Unit (tank TK2805) shall be limited to the following:

| <u>Source</u> | <u>max gallons/hour</u> | <u>annual gallons</u> |
|---------------|-------------------------|----------------------------|
| tank truck | 24,000 gallons per hour | 6,900,000 gallons per year |

(9/11)

E. Loading of products into drums shall be limited to the following rates:

| <u>Product</u> | <u>max gallons/hour</u> | <u>annual gallons</u> |
|----------------|-------------------------|-----------------------|
| Decene | 1,045 | 125,000 |
| Dodecene | 1,045 | 125,000 |
| Tetradecene | 1,045 | 125,000 |
| hexadecene | 1,045 | 125,000 |

| <u>Product</u> | <u>max gallons/hour</u> | <u>annual gallons</u> |
|----------------|-------------------------|-----------------------|
| octadecene | 1,045 | 200,000 |
| C20-C24 | 1,045 | 200,000 |
| C26-C28 | 1,045 | 200,000 |
| C30+ | 1,045 | 200,000 |

- F. Loading of butene, hexene, octene, decene, spent solvent, slop oil from Tank Nos. M-144 and M-145, and mixed hydrocarbons from Tank No. TK-39 at the NAOU Loading Rack shall be into pressure-rated tank trucks or railcars utilizing 150-psig minimum rated hard piping or hoses and the vapors routed to the Z-101 Flare (EPN 110) or EU-1592 for recovery. **(9/11)**
- G. Decene and spent caustic loading at the NAOU 1797 Loading Rack (EPN 128B) shall be submerged fill. Loading of other C12+ products at the NAOU Loading Rack (EPN 128B) may be by splash filling.
- H. Loading of butene, hexene, intermediate olefins, octene, decene, and dodecene at the Automated Truck Loading Rack shall be into pressure-rated tank trucks utilizing 150-psig minimum rated hard piping or hoses and the vapors routed to the Z-1101 Flare (EPN 1798-22). **(9/11)**
- I. Loading of hexene, intermediate olefins and C12+ products at the Automated Truck Loading Rack (EPN 1798-40) shall be by submerged fill and limited to two trucks per hour. **(3/14)**
- J. Operation without visible liquid leaks or spills shall be maintained at all loading/unloading facilities, regardless of vapor pressure. This does not apply to momentary dripping associated with the initial connection or disconnection of fittings. Sustained dripping from fittings during loading/unloading operations is not permitted. Any liquid spill that occurs during loading/unloading activities shall be reported as required pursuant to Title 30 Texas Administrative Code § 101.201 (30 TAC § 101.201) and shall be cleaned up immediately to minimize air emissions.
- K. Loading throughput for emission point numbers 128B, 128D and 1798-40 is limited by the Confidential "Loading Throughput Summary" submitted December 23, 2013. **(3/14)**
- L. The permit holder shall maintain and update a monthly emissions record which includes calculated emissions of VOC from all loading operations over the previous rolling 12 month period.

The record shall include the loading spot, control method used, quantity loaded in gallons, name of the liquid loaded, vapor molecular weight, liquid temperature in degrees Fahrenheit, liquid vapor pressure at the liquid temperature in psia, liquid throughput for the previous month and rolling 12 months to date. Records of VOC temperature are not required to be kept for liquids loaded from unheated tanks which receive liquids that are at or below ambient temperatures. Emissions shall be calculated using the TCEQ publication titled "Technical Guidance Package for Chemical Sources - Loading Operations." **(3/14)**

- M. Each tank truck for which loading vapors are required to be routed to a flare shall pass vapor-tight testing every 12 months using the methods described in Title 40 Code of Federal Regulations Part 60 (40 CFR 60), Subpart R. The permit holder shall not allow a tank truck to be filled unless it has passed a leak-tight test within the past year as evidenced by a certificate which shows the date the tank truck last passed the leak-tight test required by this condition and the identification number of the tank truck. **(3/14)**

**Piping, Valves, Connectors, Pumps, and Compressors in VOC Service –
28RCT, 28VHP and 28CNTQ**

- 11. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment
 - A. These conditions shall not apply where (1) the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 psia at 68°F, or (2) the operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list to be made available upon request.
 - B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable ANSI, API, ASME, or equivalent codes.
 - C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical.
 - D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Non-

accessible valves, as defined by 30 TAC Chapter 115 shall be identified in a list to be made available upon request.

- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. No later than the next scheduled quarterly monitoring after initial installation or replacement, all new or reworked connections shall be gas-tested or hydraulically-tested at no less than normal operating pressure and adjustments made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve. Except during sampling, the second valve shall be closed.

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

An approved gas analyzer shall conform to requirements listed in 40 CFR § 60.485(a)-(b). Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

- G. Except as may be provided for in the special conditions of this permit, all pump and compressor seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

- H. Damaged or leaking valves or connectors found to be emitting VOC in excess of 500 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Damaged or leaking pump and compressor seals found to be emitting VOC in excess of 10,000 ppmv in the NAOU 1797 process area or 2,000 ppmv in the NAOU 1798 process area or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired.
- I. Every reasonable effort shall be made to repair a leaking component, as specified in this condition, within 15 days after the leak is found. If the repair of a component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown.
All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. The Texas Commission on Environmental Quality (TCEQ) Executive Director, at his discretion, may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown.
- J. The results of the required fugitive instrument monitoring and maintenance program shall be made available at the request of personnel from the TCEQ or any air pollution control program having jurisdiction upon request. Records shall indicate appropriate dates, test methods, instrument readings, repair results, and corrective actions taken for all components. Records of physical inspections are not required unless a leak is detected.
- K. Alternative monitoring frequency schedules of 30 TAC § 115.352 through 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of paragraphs F through G of this condition.
- L. In addition to the weekly physical inspection required by paragraph E of this condition, all accessible connectors in gas/vapor service and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with paragraphs F through J of this condition.
- M. In lieu of the monitoring frequency specified in paragraph L of this condition, connectors may be monitored on a semiannual basis if the percent of the connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of the connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternate monitoring schedules previously outlined in this paragraph.

- N. The percent of connectors leaking used in paragraph M of this condition shall be determined using the following formula:

$$(Cl + Cs) \times 100 / Ct = Cp$$

Where:

- Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or by sight, sound, and smell.
- Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.
- Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.
- Cp = the percentage of leaking connectors for the monitoring period.

- O. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standards (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations. **(09/02)**

Piping, Valves, Connectors, Pumps, And Compressors In Contact with VOC - 28VHP and 28CNTQ - HU-1891 Unit (9/11)

12. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment in the HU-1891 Unit.

- A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pound per square inch, absolute (psia) at 68°F or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

The exempted components may be identified by one or more of the following methods:

- (1) piping and instrumentation diagram (PID);
 - (2) a written or electronic database or electronic file;
 - (3) color coding;
 - (4) a form of weatherproof identification; or
 - (5) designation of exempted process unit boundaries.
- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe-to-monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe-to-monitor times. A

difficult-to-monitor component for which quarterly monitoring is specified may instead be monitored annually.

- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed.

- F. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. If a relief valve is equipped with rupture disc, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR Part 60, Appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response

factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

Replacements for leaking components shall be re-monitored within 15 days of being placed back into VOC service.

- G. Except as may be provided for in the special conditions of this permit, all pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. These seal systems may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.
- H. Damaged or leaking valves or connectors found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. Damaged or leaking pump, compressor, and agitator seals found to be emitting VOC in excess of 2,000 ppmv or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days and a record of the attempt shall be maintained.
- I. A leaking component shall be repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging within 15 days of the detection of the leak. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC

115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown as calculated in accordance with 30 TAC § 115.782(c)(1)(B)(i)(I), the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

- J. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- K. Alternative monitoring frequency schedules of 30 TAC § 115.352 through 115.359 or National Emission Standards for Organic Hazardous Air Pollutants, 40 CFR Part 63, Subpart H, may be used in lieu of paragraphs F through G of this condition.
- L. In addition to the weekly physical inspection required by paragraph E of this condition, all accessible connectors in gas/vapor service and light liquid service shall be monitored quarterly with an approved gas analyzer in accordance with paragraphs F through J of this condition.
- M. Connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

Connectors may be monitored on an annual basis if the percent of the connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.

If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternate monitoring schedules previously outlined in this paragraph.

- N. The percent of connectors leaking used in paragraph M of this condition shall be determined using the following formula:

$$(Cl + Cs) \times 100 / Ct = Cp$$

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or by sight, sound, and smell.

Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

- O. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standards (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants and does not constitute approval of alternative standards for these regulations.
- P. In lieu of the requirement under paragraph I to notify the TCEQ Regional Director and any local program when the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown, the permit holder may notify the TCEQ Regional Director and any local program when the cumulative daily emission rate of all components on the delay of repair list is equal to or exceeds the total daily emissions from a unit shutdown as calculated in accordance with 30 TAC § 115.782(c)(1)(B)(i)(I).

Piping, Valves, Connectors, Pumps, and Compressors in VOC Service for Intensive Directed Maintenance - 28LAER – New Equipment in 1797 and 1798 Units (added in 2014 NAO Expansion – EPNs F-130-LAER and 1798-30-LAER)

13. Except as may be provided for in the special conditions of this permit, the following requirements apply to the above-referenced equipment: **(3/14)**
 - A. The requirements of paragraphs F and G shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.044 pounds per square inch, absolute (psia) at 68EF or (2) operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

The exempted components may be identified by one or more of the following methods:

 1. piping and instrumentation diagram (PID);
 2. a written or electronic database or electronic file;
 3. color coding;
 4. a form of weatherproof identification; or
 5. designation of exempted process unit boundaries.
 - B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
 - C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
 - D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe-to-monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe-to-monitor times. A

difficult-to-monitor component for which quarterly monitoring is specified may instead be monitored annually.

- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 15 days of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance.
- F. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through. In addition, all connectors shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program in accordance with items F thru J of this special condition.
- G. In lieu of the monitoring frequency specified above, connectors may be monitored on a semiannual basis if the percent of connectors leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.
- H. Connectors may be monitored on an annual basis if the percent of connectors leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.
- I. If the percent of connectors leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.
- J. The percent of connectors leaking used in paragraph B shall be determined using the following formula:

$$(Cl + Cs) \times 100 / Ct = Cp$$

Where:

Cl = the number of connectors found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Cs = the number of connectors for which repair has been delayed and are listed on the facility shutdown log.

Ct = the total number of connectors in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including non-accessible and unsafe-to-monitor connectors.

Cp = the percentage of leaking connectors for the monitoring period.

Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period;

1. a cap, blind flange, plug, or second valve must be installed on the line or valve; or
2. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.

- K. Accessible valves shall be monitored by leak-checking for fugitive emissions at least quarterly using an approved gas analyzer with a directed maintenance program. Non-accessible valves shall be monitored by leak-checking for fugitive emissions at least annually using an approved gas analyzer with a directed maintenance program. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves), vent valves on fixed roof tanks, and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs that discharge to the atmosphere, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown. A check of the reading of the pressure-sensing device to verify disc integrity shall be performed at least quarterly and recorded in the unit log or

equivalent. Pressure-sensing devices that are continuously monitored with alarms are exempt from recordkeeping requirements specified in this paragraph.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. A calculated average is not required when all of the compounds in the mixture have a response factor less than 10 using methane. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

A directed maintenance program shall consist of the repair and maintenance of components assisted simultaneously by the use of an approved gas analyzer such that a minimum concentration of leaking VOC is obtained for each component being maintained. Replaced components shall be re-monitored within 15 days of being placed back into VOC service.

- L. All new and replacement pumps, compressors, and agitators shall be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. These seal systems need not be monitored and may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure, seals degassing to vent control systems kept in good working order, or seals equipped with an automatic seal failure detection and alarm system. Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

All other pump, compressor, and agitator seals shall be monitored with an approved gas analyzer at least quarterly.

- M. Damaged or leaking valves, connectors, compressor seals, pump seals, and agitator seals found to be emitting VOC in excess of 500 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. A leaking component shall be

repaired as soon as practicable, but no later than 15 days after the leak is found. If the repair of a component would require a unit shutdown that would create more emissions than the repair would eliminate, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. A listing of all components that qualify for delay of repair shall be maintained on a delay of repair list. The cumulative daily emissions from all components on the delay of repair list shall be estimated by multiplying by 24 the mass emission rate for each component calculated in accordance with the instructions in 30 TAC 115.782 (c)(1)(B)(i)(II). The calculations of the cumulative daily emissions from all components on the delay of repair list shall be updated within ten days of when the latest leaking component is added to the delay of repair list. When the cumulative daily emission rate of all components on the delay of repair list times the number of days until the next scheduled unit shutdown is equal to or exceeds the total emissions from a unit shutdown, clearing, and startup as calculated in accordance with 30 TAC 115.782 (c)(1)(B)(i)(I), or 500 pounds, whichever is greater, the TCEQ Regional Manager and any local programs shall be notified and may require early unit shutdown or other appropriate action based on the number and severity of tagged leaks awaiting shutdown. This notification shall be made within 15 days of making this determination.

- N. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. The instrument monitoring record shall include the time that monitoring took place for no less than 95% of the instrument readings recorded. Records of physical inspections shall be noted in the operator's log or equivalent.
- O. Compliance with the requirements of this condition does not assure compliance with requirements of 30 TAC Chapter 115, an applicable New Source Performance Standard (NSPS), or an applicable National Emission Standard for Hazardous Air Pollutants (NESHAPS), and does not constitute approval of alternative standards for these regulations.
- P. In lieu of the monitoring frequency specified in paragraph F, valves in gas and light liquid service may be monitored on a semiannual basis if the percent of valves leaking for two consecutive quarterly monitoring periods is less than 0.5 percent.

- Q. Valves in gas and light liquid service may be monitored on an annual basis if the percent of valves leaking for two consecutive semiannual monitoring periods is less than 0.5 percent.
- R. If the percent of valves leaking for any semiannual or annual monitoring period is 0.5 percent or greater, the facility shall revert to quarterly monitoring until the facility again qualifies for the alternative monitoring schedules previously outlined in this paragraph.
- S. The percent of valves leaking used in paragraph K shall be determined using the following formula:
$$(Vl + Vs) \times 100 / Vt = Vp$$

Where:

Vl = the number of valves found leaking by the end of the monitoring period, either by Method 21 or sight, sound, and smell.

Vs = the number of valves for which repair has been delayed and are listed on the facility shutdown log.

Vt = the total number of valves in the facility subject to the monitoring requirements, as of the last day of the monitoring period, not including nonaccessible and unsafe-to-monitor valves.

Vp = the percentage of leaking valves for the monitoring period.
- T. Any component found to be leaking by physical inspection (i.e., sight, sound, or smell) shall be repaired or monitored with an approved gas analyzer within 15 days to determine whether the component is leaking in excess of 500 ppmv of VOC. If the component is found to be leaking in excess of 500 ppmv of VOC, it shall be subject to the repair and replacement requirements contained in this special condition.
- U. Initial component identification and monitoring shall occur within 180 days of initial startup.

Initial Demonstration of Compliance

14. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of emissions from Heater H-530 and H-1530. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at his expense.
- A. The TCEQ Houston Regional Office shall be contacted as soon as testing is scheduled, but not less than 45 days prior to sampling to schedule a pretest meeting.

The notice shall include:

- (1) Date for pretest meeting.
- (2) Date sampling will occur.
- (3) Name of firm conducting sampling.
- (4) Type of sampling equipment to be used.
- (5) Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

A written proposed description of any deviation from sampling procedures specified in permit conditions or the TCEQ or the U.S. Environmental Protection Agency (EPA) sampling procedures shall be made available to the TCEQ prior to the pretest meeting. The TCEQ Houston Regional Director shall approve or disapprove of any deviation from specified sampling procedures.

Requests to waive testing for any pollutant specified in Paragraph B of this condition shall be submitted to the TCEQ Office of Air, Air Permits Division in Austin. Test waivers and alternate/equivalent procedure proposals for NSPS testing which must have the EPA approval shall be submitted to the TCEQ Office of Air, Air Permits Division.

- B. Air contaminants to be tested for include (but are not limited to) VOC and NO_x.

- C. Sampling shall occur within 60 days after achieving the maximum production rate, but not later than 180 days after initial start-up of the facilities and at such other times as may be required by the Executive Director of the TCEQ. Requests for additional time to perform sampling shall be submitted to the TCEQ Houston Regional Office. Additional time to comply with the applicable requirements of 40 CFR Part 60 and 40 CFR Part 61 requires the EPA approval, and requests shall be submitted to the TCEQ Enforcement Division, Engineering Services Team in Austin.
 - D. The plant shall operate at maximum production rates during stack emission testing. Primary operating parameters that enable determination of production rate shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting. If the plant is unable to operate at maximum rates during testing, then future production rates may be limited to the rates established during testing. Additional stack testing may be required when higher production rates are achieved.
 - E. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
 - One copy to the TCEQ Houston Regional Office.
 - One copy to the Harris County Pollution Control Department, Houston.
 - F. Stack sampling shall be repeated every five years after the initial testing in conformity with Paragraphs A, B, D, and E of this condition.
15. Flare testing per 40 CFR 60.18(f) shall occur within 60 days after achieving the maximum production rate, but not later than 180 days after initial start-up of the facilities and at such other times as may be requested by the TCEQ Houston Regional Office to demonstrate compliance with this condition.

Continuous Demonstration of Compliance

16. Cooling Towers Z-104 and Z-1104:

- A. The VOC associated with cooling tower water in cooling towers Z-104 and Z-1104 shall be monitored weekly by analyzing a grab sample with a chromatograph for potential contaminants such as ethylene, propylene, or other hydrocarbons, depending on the service for the particular cooling tower, or cooling tower monitoring method in 30 TAC Chapter 115 Subpart H, Division 2. (30 TAC § 115.764, December 23, 2004) **(12/05)**
- B. The appropriate equipment shall be maintained so as to minimize fugitive VOC emissions from the cooling tower. Faulty equipment shall be repaired at the earliest opportunity, but no later than the next scheduled shutdown of the process unit in which the leak occurs. The results of the monitoring efforts shall be recorded. **(09/02)**

17. Cooling Tower Z-201:

- A. The VOC associated with cooling tower water in cooling tower Z-201 (EPN 150A) shall be monitored by the cooling tower monitoring method in 30 TAC Chapter 115 Subpart H, Division 2. (30 TAC § 115.764, December 23, 2004) **(9/11)**
- B. Cooling water VOC concentrations above 0.08 ppmw indicate faulty equipment. Equipment shall be maintained so as to minimize VOC emissions into the cooling water. Faulty equipment shall be repaired at the earliest opportunity but no later than the next scheduled shutdown of the process unit in which the leak occurs.

Emissions from the cooling tower are not authorized if the VOC concentration of the water returning to the cooling tower exceeds 0.8 ppmw. The VOC concentrations above 0.8 ppmw are not subject to extensions for delay of repair under this permit condition. The results of the monitoring and maintenance efforts shall be recorded.

- C. Cooling water shall be sampled once a week for total dissolved solids (TDS) and once a day or continuously for conductivity. Dissolved solids in the cooling water drift are considered to be emitted as PM10. The data shall result from collection of water samples from the cooling tower feed water and represent the water being cooled in the tower. Water samples should be capped upon collection, and transferred to a laboratory area for

analysis. The analysis method for TDS shall be EPA Method 160.1, ASTM D5907, or SM 2540 C [SM - 19th edition of Standard Methods for Examination of Water]. The analysis method for Conductivity shall be ASTM D1125-95 or SM2510 B. Use of an alternative method shall be approved by the TCEQ Regional Director prior to its implementation. **(3/14)**

Recordkeeping and Reporting Requirements

18. The permit holder shall calculate emissions from each emission point monthly to show compliance with the rolling 12-month annual emission limits on the MAERT. Individual emission points which have allowable emissions on the MAERT of less than 1 ton per year are exempt from this requirement. Records of fuel consumption required by Special Condition No. 4 may be used to demonstrate compliance with the rolling 12-month annual emission limits on the MAERT for Heaters H-3, H-530, and H-1530. **(09/02)**

Miscellaneous

19. The permit holder is authorized to install and conduct testing of a Milton Roy triplex style diaphragm pump at NAOU 1797 and if the trial run is successful, install it as a replacement pump for the NAOU 1798 catalyst pump. **(09/02)**

Compliance Assurance Monitoring

20. The following requirements apply to capture systems for flares Z-251, SYS-740, Z-101 and Z-1101 (EPNs: 110, 129, 136 and 1798-22). **(3/14)**
 - A. If used to control pollutants other than particulate, either:
 - (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
 - (2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 ppmv above background.

B. The control device shall not have a bypass.

or

If there is a bypass for the control device, comply with either of the following requirements:

- (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
- (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

C. These requirements do not apply to high point vent and low point drain valves. A deviation shall be reported if the monitoring or inspections indicate bypass of the control device.

D. Records of the inspections required shall be maintained and if the results of any of the above inspections are not satisfactory, the permit holder shall promptly take necessary corrective action.

Maintenance Startup and Shutdown

21. This permit authorizes emissions from Normal Alpha Olefins (NAO) Units 1797 and 1798 and the HU-1891 unit for the planned maintenance, startup, and shutdown (MSS) activities summarized in the MSS Activity Summary (Attachment C) attached to this permit. MSS activities for storage tanks, frac tanks and vacuum trucks in the Normal Alpha Olefins (NAO) Units 1797 and 1798 and the HU-1891 are being authorized by permit No. 83791. **(9/11)**

These emissions are subject to the maximum allowable emission rates indicated on the MAERT.

Attachment A identifies the inherently low emitting MSS activities that may be performed at the plant. Emissions from activities identified in Attachment A shall be considered to be equal to the potential to emit represented in the permit application. The estimated emissions from the activities listed in Attachment A

must be revalidated annually. This revalidation shall consist of the estimated emissions for each type of activity and the basis for that emission estimate.

Routine maintenance activities, as identified in Attachment B may be tracked through work orders or equivalent. Emissions from activities identified in Attachment B shall be calculated using the number of work orders or equivalent that month and the emissions associated with that activity identified in the permit application.

The performance of each planned MSS activity not identified in Attachments A or B and the emissions associated with it shall be recorded and include at least the following information:

- A. the physical location at which emissions from the MSS activity occurred, including the emission point number, common name, and any other identifier for the point at which the emissions were released into the atmosphere;
- B. the type of planned maintenance, startup, or shutdown activity and the reason for the planned activity;
- C. the common name and the facility identification number of the facilities at which the MSS activity and emissions occurred;
- D. the date and time of the MSS activity and its duration;
- E. the estimated quantity of each air contaminant, or mixture of air contaminants, emitted with the data and methods used to determine it. The emissions shall be estimated using the methods identified in the amendment application, consistent with good engineering practice.

MSS activities shall be summed monthly and the 12 month rolling emissions shall be updated on a monthly basis.

22. Process units and facilities shall be depressurized, emptied, degassed, and placed in service in accordance with the following requirements. Note: Attachment A activities are exempt from these requirements. **(1/12)**

- A. The process equipment shall be depressurized to a control device or a controlled recovery system prior to venting to atmosphere, degassing, or draining liquid. Equipment that only contains material that is liquid with

VOC partial pressure less than 0.50 psi at the actual process temperature and 95°F may be opened to atmosphere and drained in accordance with paragraph C of this special condition. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded.

- B. If mixed phase materials must be removed from process equipment, the cleared material shall be routed to a knockout drum or equivalent to allow for managed initial phase separation. If the VOC partial pressure is greater than 0.50 psi at either the actual process temperature or 95°F, any vents in the system must be routed to a control device or a controlled recovery system. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. Control must remain in place until degassing has been completed or the system is no longer vented to atmosphere.
- C. All liquids from process equipment or storage vessels must be removed to the maximum extent practical prior to opening equipment to commence degassing and/or maintenance. Liquids must be drained into a closed vessel unless prevented by the physical configuration of the equipment. If it is necessary to drain liquid into an open pan or sump, the liquid must be covered or transferred to a covered vessel within one hour of being drained.
- D. If the VOC partial pressure is greater than 0.50 psi at the actual process temperature or 95°F, facilities shall be degassed using good engineering practice to ensure air contaminants are removed from the system through a control device or controlled recovery system to the extent allowed by process equipment or storage vessel design. The vapor pressure at 95°F may be used if the actual temperature of the liquid is verified to be less than 95°F and the temperature is recorded. The facilities to be degassed shall not be vented directly to atmosphere, except as necessary to establish isolation of the work area or to monitor VOC concentration following controlled depressurization.
 - (1) For MSS activities identified in Attachment B, the following option may be used in lieu of (2) below. The facilities being prepared for maintenance shall not be vented directly to atmosphere until the VOC concentration has been verified to be less than 10 percent of the lower explosive limit (LEL) per the site safety procedures.

- (2) The venting shall be minimized to the maximum extent practicable and actions taken recorded. The control device or recovery system utilized shall be recorded with the estimated emissions from controlled and uncontrolled degassing calculated using the methods that were used to determine allowable emissions for the permit application. The locations and/or identifiers where the purge gas or steam enters the process equipment the exit points for the exhaust gases shall be recorded (process flow diagrams [PFDs] or piping and instrumentation diagrams [P&IDs] may be used to demonstrate compliance with the requirement). If the process equipment is purged with a gas, two system volumes of purge gas must have passed through the control device or controlled recovery system before the vent stream may be sampled to verify acceptable-VOC concentration prior to uncontrolled venting. The VOC sampling and analysis shall be performed using an instrument meeting the requirements of Special Condition 23. The sampling point shall be upstream of the inlet to the control device or controlled recovery system. The sample ports and the collection system must be designed and operated such that there is no air leakage into the sample probe or the collection system downstream of the process equipment or vessel being purged. The facilities shall be degassed to a control device or controlled recovery system until the VOC concentration is less than 10,000 ppmv or 10 percent of the LEL. Documented site procedures used to de-inventory equipment to a control device for safety purposes (i.e., hot work or vessel entry procedures) that achieve at least the same level of purging may be used in lieu of the above.

E. Gases and vapors with VOC partial pressure greater than 0.50 psi may be vented directly to atmosphere if all the following criteria are met:

- (1) It is not technically practicable to depressurize or degas, as applicable, into the process.
- (2) There is not an available connection to a plant control system (flare).
- (3) There is no more than 50 lb of air contaminant to be vented to atmosphere during MSS activity, as applicable.

All instances of venting directly to atmosphere per Special Condition 22.E must be documented when occurring as part of any MSS activity.

The emissions associated with venting without control must be included in the calculation for those planned MSS activities identified in Attachment B.

23. When required by Special Condition 22.D (2), air contaminant concentration shall be measured using an instrument/detector meeting one set of requirements specified below. **(1/12)**

A. VOC concentration shall be measured using an instrument meeting all the requirements specified in EPA Method 21 (40 CFR 60, Appendix A) with the following exceptions:

- (1) The instrument shall be calibrated within 24 hours of use with a calibration gas. The calibration gas used and its concentration, and the vapor to be sampled and its approximate response factor (RF), shall be recorded. If the RF of the VOC (or mixture of VOCs) to be monitored is greater than 2.0, the VOC concentration shall be determined as follows

$$\text{VOC Concentration} = \text{Concentration as read from the instrument} * \text{RF}$$

In no case should a calibration gas be used such that the RF of the VOC (or mixture of VOCs) to be monitored is greater than 5.0.

- (2) Sampling shall be performed as directed by this permit in lieu of section 8.3 of Method 21. During sampling, data recording shall not begin until after two times the instrument response time. The date and time shall be recorded, and VOC concentration shall be monitored for at least 5 minutes, recording VOC concentration each minute. The highest measured VOC concentration shall not exceed the specified VOC concentration limit prior to uncontrolled venting.

B. Colorimetric gas detector tubes may be used to determine air contaminant concentrations if they are used in accordance with the following requirements.

- (1) The air contaminant concentration measured is less than 80 percent of the range of the tube. If the maximum range of the tube is greater than the release concentration defined in iii., the concentration measured is at least 20 percent of the maximum range of the tube.

- (2) The tube is used in accordance with the manufacturer's guidelines.
- (3) At least 2 samples taken at least 5 minutes apart must satisfy the following prior to uncontrolled venting:

measured contaminant concentration (ppmv) < release concentration.

Where the release concentration is:
10,000*mole fraction of the total air contaminants present that can be detected by the tube.

The mole fraction may be estimated based on process knowledge. The release concentration and basis for its determination shall be recorded.

Records shall be maintained of the tube type, range, measured concentrations, and time the samples were taken.

C. Lower explosive limit measured with a lower explosive limit detector.

- (1) The detector shall be calibrated within 30 days of use with a certified pentane, propane, methane, or ethylene gas standard at 25% of the lower explosive limit (LEL) for pentane, propane, methane, or ethylene. Records of the calibration date/time and calibration result (pass/fail) shall be maintained.
- (2) A functionality test shall be performed on each detector within 24 hours of use using the same certified gas standard used for calibration. The LEL monitor shall read no lower than 90% of the calibration gas certified value. Records, including the date/time and test results, shall be maintained.

- 24. Each open-ended valve or line shall be equipped with an appropriately sized cap, blind flange, plug, or a second valve to seal the line. Except during sampling, both valves shall be closed. If the isolation of equipment for hot work or the removal of a component for repair or replacement results in an open ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 72 hours. If the repair or replacement is not completed within 72 hours, the permit holder must complete either of the following actions within that time period; **(8/11)**

- A. a cap, blind flange, plug, or second valve must be installed on the line or valve;
or
 - B. the open-ended valve or line shall be monitored once for leaks above background for a plant or unit turnaround lasting up to 45 days with an approved gas analyzer and the results recorded. For all other situations, the open-ended valve or line shall be monitored once by the end of the 72 hours period following the creation of the open ended line and monthly thereafter with an approved gas analyzer and the results recorded. For turnarounds and all other situations, leaks are indicated by readings of 500 ppmv and must be repaired within 24 hours or a cap, blind flange, plug, or second valve must be installed on the line or valve.
25. All permanent facilities must comply with all operating requirements, limits, and representations in this permits during planned startup and shutdown unless alternate requirements and limits are identified in this permit. Alternate requirements for emissions from routine emission points are identified below. **(8/11)**
- A. Combustion units, with the exception of flares, at this site are exempt from NO_x and CO operating requirements identified in special conditions in other NSR permits during planned startup and shutdown if the following criteria are satisfied.
 - (1) The maximum allowable emission rates in the permit authorizing the facility are not exceeded.
 - (2) The startup period does not exceed 8 hours in duration and the firing rate does not exceed 75 percent of the design firing rate. The time it takes to complete the shutdown does not exceed 4 hours.
 - (3) Control devices are started and operating properly when venting a waste gas stream.
 - B. A record shall be maintained indicating that the start and end times of each of the activities identified above occur and documentation that the requirements for each have been satisfied.
26. Additional occurrences of MSS activities authorized by this permit (see Attachment C) may be authorized under permit by rule only if conducted in compliance with this permit's procedures, emission controls, monitoring, and recordkeeping requirements applicable to the activity. **(7/12)**

27. The changes described in Confidential Attachment 4 submitted on November 11, 2013 entitled "Summary of Changes to Pending Amendment Application" are required to be made after completion of construction of the NAO Expansion Project and prior to subsequent startup of the units. **(3/14)**

28. **Volatile Organic Compound (VOC) Emissions and Offsets: (3/14)**

- A. This Nonattainment New Source Review (NNSR) permit is issued based on the permanent retirement of 8.9 tons per year (tpy) of VOC Emission Reduction Credit (ERCs) from ERC certificates owned by the permit holder. The 8.9 tpy of VOC ERCs provides offsets at the ratio of 1.3 to 1 for 6.78 tpy of VOC emissions authorized from the following facilities under this permit.

VOC ERC Facilities:

| | |
|----------------------------|-----------------|
| Tanks | 1.84 tpy |
| Heaters | 3.69 tpy |
| Fugitives | 1.25 tpy |
| NNSR Offsets (0.3 portion) | <u>2.03 tpy</u> |
| Total VOC ERC | 8.9 tpy |

- B. For the following facilities subject to the Highly-Reactive Volatile Organic Compound (HRVOC) Emission Cap and Trade (HECT) program in the HGB nonattainment area, the permit holder shall satisfy the VOC offset requirement for the following units using HECT allowances: EPN 1978-22 (Flare Z-1101) and EPN110 (Flare Z-101).

HECT Facilities:

| | |
|----------------------------|-----------------|
| Flares | 14.58 tpy |
| NNSR Offsets (0.3 portion) | <u>4.37 tpy</u> |
| Total HECT | 19.0 tpy |

- (1) To satisfy the 0.3 portion of the 1.3:1 of the VOC emissions offsets for facilities subject to the HECT program for the permit holder shall permanently retire 4.4 tpy of HECT allowances prior to the start of operation of these facilities. Additionally, due to the scheduled HECT devaluation in 30 TAC §101.394(a)(1)(B), the permit holder shall permanently retire additional 0.9 tpy of HECT allowances prior to the start of operation of these facilities to make up for the devaluation change.
- (2) To satisfy the 1:1 portion of the 1.3:1 of the VOC emissions offsets

for facilities subject to the HECT program, starting with the HECT compliance period in which the facilities will commence operation, the permit holder shall obtain by the beginning of, hold during, and surrender at the end of each HECT compliance period 14.6 tpy of HECT allowances, regardless of whether the actual HRVOC emissions from these facilities are lower than this amount. The TCEQ Emissions Banking and Trading Program must be notified and must verify the use of HECT allowances for the 1:1 portion of the VOC offset requirement before the start of the compliance period of the first year of operation.

If HECT allowances devalue due to scheduled and/or future regulatory changes, the permit holder shall acquire additional HECT allowances to hold during and surrender at the end of each HECT compliance period 14.6 tpy of HECT allowances.

29. Nitrogen Oxides (NO_x) Emissions and Offsets: (3/14)

- A. This Nonattainment New Source Review (NNSR) permit is issued based on the permanent retirement of 4.1 tons per year (tpy) of NO_x ERCs from ERC certificates owned by the permit holder. The 4.1 tpy of NO_x ERCs provide offsets at the ratio of 1.3 to 1 for 3.13 tpy of NO_x emissions authorized from the following facilities under this permit.

NO_x ERC Facilities:

| | |
|----------------------------|-----------------|
| Flares | 3.13 tpy |
| NNSR Offsets (0.3 portion) | <u>0.94 tpy</u> |
| Total NO _x ERC | 4.1 tpy |

- B. For the following facilities subject to the Mass Emissions Cap and Trade (MECT) program in the HGB nonattainment area, the permit holder shall satisfy the NO_x offset requirement using MECT allowances: EPN 135 (Heater H-530) and EPN 1798-23 (Dowtherm Heater H-1530).

MECT Facilities:

| | |
|----------------------------|-----------------|
| Heaters | 10.00 tpy |
| NNSR Offsets (0.3 portion) | <u>3.00 tpy</u> |
| Total MECT | 13.0 tpy |

- (1) To satisfy the 0.3 portion of the 1.3:1 of the VOC emissions offsets for facilities subject to the MECT program for the permit holder

shall permanently retire 3.0 tpy of MECT allowances prior to the start of operation of these facilities.

- (2) To satisfy the 1:1 portion of the 1.3:1 of the NO_x emissions offsets for facilities subject to the MECT program, starting with the MECT compliance period in which the facilities will commence operation, the permit holder shall obtain by the beginning of, hold during, and surrender at the end of each MECT compliance period 10.0 tpy of MECT allowances, regardless of whether the actual NO_x emissions from these facilities are lower than this amount. The TCEQ Emissions Banking and Trading Program must be notified and must verify the use of MECT allowances for the 1:1 portion of the VOC offset requirement before the start of the compliance period of the first year of operation.

- C. If MECT allowances devalue due to future regulatory changes, the permit holder shall acquire additional MECT allowances to hold during and surrender at the end of each MECT compliance period 10.0 tpy of MECT allowances.

Federal Applicability

- 30. A. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):
 - i. Subpart A, General Provisions.
 - ii. Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.
 - iii. Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006.

- iv. Subpart DDD, Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry.
 - v. Subpart NNN, Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations.
 - vi. Subpart RRR, Standards of Performance for Volatile Organic Compound Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes.
- B. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants (NESHAP) in 40 CFR Part 61:
- i. Subpart A, General Provisions.
 - ii. Subpart M, National Emission Standard for Asbestos.
 - iii. Subpart FF, National Emission Standard for Benzene Waste Operations.
- C. These facilities shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
- i. Subpart A, General Provisions.
 - ii. Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

Dated January 30, 2015

Permit 37063
Attachment A
Inherently Low Emitting Activities

| Activity | Emissions | | | | |
|---|-----------|-----|----|----|----------------------------------|
| | VOC | NOx | CO | PM | H ₂ S/SO ₂ |
| Calibration of analytical equipment | x | | | | |
| Catalyst charging/handling | | | | x | |
| Instrumentation/analyzer maintenance | x | | | | |
| Replacement of analyzer filters and screens | x | | | | |
| Maintaining sight glasses | x | | | | |

Dated August 15, 2011

Permit 37063
Attachment B
Routine Planned Maintenance Activities

The following maintenance activities are authorized by this permit:

- Reactor Wash
- Reactor maintenance
- High Pressure Separator maintenance
- Filter maintenance
- Drier Regeneration
- Drier maintenance
- Valve Function Checks
- Pump repair/replacement/maintenance prep and startup
- Fugitive component (valve, pipe, flange, PSV, etc)) repair/replacement
- Compressor repair/replacement/maintenance prep and startup
- Heat exchanger repair/replacement
- Vessel repair/replacement
- Instrumentation repair/replacement (> inherently low emitting sources)
- Miscellaneous equipment repair/replacement (e.g. valves, piping, spools, specialty equipment)
- High pressure flare maintenance
- Process vent route to flare during unit outages
- Process vent system maintenance
- Front end outage to clean tower overhead
- Catalyst changeout
- Pot draining

Dated March 14, 2014

Permit 37063
Attachment C
MSS Activity Summary

| Facilities | Description | Emissions Activity | EPN |
|-------------------------------------|---|---------------------------|------------------------------|
| see Attachment A | miscellaneous low emitting activities | see Attachment A | F-MSSNAO F- MSSHU |
| Attachment B | process unit routine maintenance, component repair or replacement – depressurize, degas and drain | vent to flare | 136 1798-22 110 129 |
| Attachment B | process unit routine maintenance – equipment opening | vent to atmosphere | F-MSSNAO F-MSSHU |
| NAO - 1797 NAO - 1798 HU-1891 | process unit shutdown – depressurize, degas and drain | vent to flare | 136 1798-22 110 129 |
| NAO – 1797 NAO - 1798 HU-1891 | process unit shutdown – equipment opening | vent to atmosphere | F-MSSNAO F-MSSHU |
| NAO - 1797 NAO - 1798 HU-1891 | process unit startup | vent to flare | 136 1798-22 110 129 |

VOC emission limits have been included for EPN's 110, 136 and 1798-22 to prepare equipment for maintenance or emissions generated from the activity itself (e.g. reactor washes).

VOC emissions generated when opening the equipment to the atmosphere are included in EPNs F-MSSNAO and F-MSSHU.

Dated March 14, 2014

Emission Sources - Maximum Allowable Emission Rates

Permit Number 37063 and N178

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 116A | IFR Tank M-144 | VOC | 0.11 | --- |
| 116B | IFR Tank M-145 | VOC | 0.11 | --- |
| 116C | Fixed Roof Tank M-107 | VOC | 2.20 | --- |
| 116D | Fixed Roof Tank M-137 | VOC | 2.20 | --- |
| TKCap-O | EPNs 116A, 116B, 116C, and 116D | VOC | 2.42 (8) | 0.24 |
| 117L | IFR Tank TK-808 | VOC | 0.15 | --- |
| 1798-04 | IFR Tank TK-1808 | VOC | 0.15 | --- |
| TKCap-A | EPN's 117L & 1798-04 | VOC | 0.15 (6) | 0.37 |
| 117Q | IFR Tank TK-800 | VOC | 0.88 | 2.39 |
| 126A | IFR Tank TK-1 | VOC | 0.47 | 0.58 |
| 1798-01 | IFR Tank TK-1800 | VOC | 0.63 | 1.92 |
| 1798-03 | IFR Tank TK-1806 | VOC | 0.45 | 1.19 |
| 117F | IFR Tank TK-36 | VOC | 0.50 | --- |
| 117G | IFR Tank TK-37 | VOC | 0.50 | --- |
| TKCap-B | EPN's 117F & 117G | VOC | 0.50 (6) | 2.39 |
| 116E | Fixed Roof Tank M-138 | VOC | 0.05 | 0.01 |
| 117J | Fixed Roof Tank TK-40 | VOC | 0.01 | 0.01 |
| 126C | Fixed Roof Tank TK-10 | VOC | 5.69 | --- |
| 127Q | Fixed Roof Tank TK-15 | VOC | 5.69 | --- |
| 126E | Fixed Roof Tank TK-23 | VOC | 5.69 | --- |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 127EE | Fixed Roof Tank TK-29 | VOC | 5.69 | --- |
| 127FF | Fixed Roof Tank TK-30 | VOC | 5.69 | --- |
| 127GG | Fixed Roof Tank TK-32 | VOC(6) | 5.69 | --- |
| TKCap-C | EPN's 126C,127Q,126E, 127EE, 127FF & 127GG | VOC | 5.69 (6) | 0.86 |
| 127O | Fixed Roof Tank TK-11 | VOC | 0.01 | --- |
| 127T | Fixed Roof Tank TK-18 | VOC | 0.01 | --- |
| 127HH | Fixed Roof Tank TK-33 | VOC | 0.01 | --- |
| 127II | Fixed Roof Tank TK-34 | VOC | 0.01 | --- |
| TKCap-D | EPN's 127O, 127T,127HH & 127II | VOC | 0.01 (6) | 0.01 |
| 127R | Fixed Roof Tank TK-16 | VOC | 3.49 | 0.48 |
| 127S | Fixed Roof Tank TK-17 | VOC | 0.34 | --- |
| 127Y | Fixed Roof Tank TK-24A | VOC | 0.34 | --- |
| TKCap-E | EPN's 127S & 127Y | VOC | 0.34 (6) | 0.01 |
| 127U | Fixed Roof Tank TK-19 | VOC | 0.03 | --- |
| 117H | Fixed Roof Tank TK-38 | VOC | 0.03 | --- |
| TKCap-F | EPN's 127U & 117H | VOC | 0.03(6) | 0.01 |
| 127UU | Fixed Roof Tank TK-28 | VOC | 0.77 | --- |
| 126B | Fixed Roof Tank TK-2A | VOC | 0.77 | --- |
| 127TT | Fixed Roof Tank TK-60 | VOC | 0.77 | --- |
| TKCap-G | EPN's 127UU, 126B & 127TT | VOC | 0.77 (6) | 1.21 |
| 127Z | Fixed Roof Tank TK-25A | VOC | 0.14 | --- |
| 127AA | Fixed Roof Tank TK-25B | VOC | 0.14 | --- |
| TKCap-H | EPN's 127Z & 127AA | VOC | 0.14 (6) | 0.01 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|----------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 127CC | Fixed Roof Tank TK-27 | VOC | 0.14 | 0.01 |
| 117I | Fixed Roof Tank TK-39 | VOC | 0.06 | 0.01 |
| 127C | Fixed Roof Tank TK-4A | VOC | 3.49 | 0.05 |
| 127D | Fixed Roof Tank TK-4B | VOC | 3.49 | 0.04 |
| 127PP | Fixed Roof Tank TK-54 | VOC | 1.34 | 0.01 |
| 117E | Fixed Roof Tank TK-55 | VOC | 17.30 | --- |
| 117U | Fixed Roof Tank TK-56 | VOC | 17.30 | --- |
| TKCap-I | EPN's 117E & 117U | VOC | 17.30 (6) | 0.04 |
| 117M | Fixed Roof Tank TK-812 | VOC | 0.80 | --- |
| 1798-06 | Fixed Roof Tank TK-1812 | VOC | 0.37 | --- |
| 127E | Fixed Roof Tank TK-5A | VOC | 0.67 | --- |
| 127F | Fixed Roof Tank TK-5B | VOC | 0.67 | --- |
| TKCap-J | EPN's 117M, 1798-06, 127E & 127F | VOC | --- | 0.26 |
| 117N | Fixed Roof Tank TK-814 | VOC | 0.11 | --- |
| 1798-07 | Fixed Roof Tank TK-1814 | VOC | 0.11 | --- |
| 127G | Fixed Roof Tank TK-6A | VOC | 0.07 | --- |
| 127H | Fixed Roof Tank TK-6B | VOC | 0.07 | --- |
| TKCap-K | EPN's 117N, 1798-07, 127G & 127H | VOC | --- | 0.02 |
| 117O | Fixed Roof Tank TK-820 | VOC | 0.01 | 0.01 |
| 117P | Fixed Roof Tank TK-822A | VOC | 0.01 | --- |
| 117T | Fixed Roof Tank TK-840 | VOC | 0.01 | --- |
| TKCap-L | EPN's 117O, 117P, & 117T | VOC | 0.01(6) | 0.01 |
| 117R | Fixed Roof Tank TK-830 | VOC | 0.07 | --- |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 127N | Fixed Roof Tank TK-9B | VOC | 0.07 | --- |
| TKCap-M | EPN's 117R & 127N | VOC | 0.07 (6) | 0.01 |
| 1798-05 | Fixed Roof Tank TK-1810 | VOC | 1.24 | 1.08 |
| 1798-08 | Fixed Roof Tank TK-1816 | VOC | 0.01 | 0.01 |
| 1798-09 | Fixed Roof Tank TK-1818 | VOC | 0.03 | 0.01 |
| 1798-10 | Fixed Roof Tank TK-1820 | VOC | 0.02 | --- |
| 127M | Fixed Roof Tank TK-9A | VOC | 0.02 | --- |
| TKCap-N | EPN's 1798-05, 1798-08, 1798-09, 1798-10, & 127M | VOC | 0.02 (6) | 0.01 |
| 1798-11 | Fixed Roof Tank TK-1822 | VOC | 0.01 | 0.01 |
| P-142-2 | Fixed Roof Tank Diesel 142 | VOC | 0.03 | 0.01 |
| SYS-910-D | Fixed Roof Tank Diesel 910 | VOC | 0.03 | 0.01 |
| P-95D | Fixed Roof Tank Diesel 95 | VOC | 0.03 | 0.01 |
| 1798-12 | Catalyst Storage Tanks TK-710A/B, TK-1710A/B | VOC | 1.70 | 0.11 |
| 120 | Heater H-3 | VOC | 0.07 | 0.30 |
| | | NOx | 0.75 | 1.98 |
| | | CO | 1.03 | 4.51 |
| | | PM | 0.10 | 0.41 |
| | | PM10 | 0.10 | 0.41 |
| | | PM2.5 | 0.10 | 0.41 |
| | | SO2 | 0.01 | 0.04 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---------------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 135 | Heater H-530 | VOC | 0.39 | 1.42 |
| | | NOx | 1.78 | 6.57 |
| | | CO | 5.87 | 21.64 |
| | | PM | 0.54 | 1.96 |
| | | PM10 | 0.54 | 1.96 |
| | | PM2.5 | 0.54 | 1.96 |
| | | SO2 | 0.05 | 0.15 |
| 1798-23 | Dowtherm Heater H-1530 | VOC | 0.49 | 1.91 |
| | | NOx | 1.80 | 7.06 |
| | | CO | 7.42 | 29.04 |
| | | PM | 0.68 | 2.63 |
| | | PM10 | 0.68 | 2.63 |
| | | PM2.5 | 0.68 | 2.63 |
| | | SO2 | 0.06 | 0.21 |
| 1798-30 | Process Fugitives P-1798 | VOC | 7.58 | 33.16 |
| F-130 | Fugitive Emissions P-1791 | VOC | 6.45 | 28.23 |
| 1798-30-LAER | Process Fugitives- LAER P-1798 | VOC | 0.13 | 0.55 |
| F-130-LAER | Fugitive Emissions- LAER P-1791 | VOC | 0.03 | 0.13 |
| 128B | C10+ Loading L-128B | VOC | 4.88 | --- |
| 1798-40 | Product Loading 1798-LOAD | VOC | 4.88 | --- |
| 128D | Product Drumming Drum | VOC | 4.88 | --- |
| Loading Cap | EPN's 128B, 1798-40 & 128D | VOC | 4.88 (7) | 2.21 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 1798-22 | Flare (Routine Only) Z-1101 | VOC | 342.58 | --- |
| | | NOx | 17.72 | --- |
| | | CO | 127.99 | --- |
| 1798-22 | Flare (MSS contribution only) Z-1101 | VOC | 150.00 | --- |
| | | NOx | 20.70 | --- |
| | | CO | 106.64 | --- |
| 1798-22 | Flare (Routine and MSS Annual Emissions Cap) Z-1101 | VOC | --- | 18.46 |
| | | NOx | --- | 2.52 |
| | | CO | --- | 17.00 |
| 136 | Flare (Routine Only) SYS-740 | VOC | 6.01 | --- |
| | | NOx | 0.91 | --- |
| | | CO | 3.62 | --- |
| 136 | Flare (MSS contribution only) SYS-740 | VOC | 35.65 | --- |
| | | NOx | 9.99 | --- |
| | | CO | 39.77 | --- |
| 136 | Flare (Routine and MSS Annual Emissions Cap) SYS-740 | VOC | --- | 2.68 |
| | | NOx | --- | 0.71 |
| | | CO | --- | 2.80 |
| 110 | Flare (Routine Only) Z-101 | VOC | 87.88 | -- |
| | | NOx | 5.23 | -- |
| | | CO | 37.69 | -- |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 110 | Flare (MSS contribution only) Z-101 | VOC | 100.00 | -- |
| | | NOx | 13.80 | -- |
| | | CO | 71.09 | -- |
| 110 | Flare (Routine and MSS Annual Emissions Cap) Z-101 | VOC | -- | 28.85 |
| | | NOx | -- | 6.38 |
| | | CO | -- | 44.39 |
| 129 | Flare (Routine Only) Z-251 | VOC | 22.63 | -- |
| | | NOx | 4.84 | -- |
| | | CO | 24.91 | -- |
| | | PM | 0.13 | -- |
| | | PM10 | 0.13 | -- |
| | | PM2.5 | 0.13 | -- |
| | | SO2 | 0.01 | -- |
| 129 | Flare (MSS contribution only) Z-251 | VOC | 32.71 | -- |
| | | NOx | 7.59 | -- |
| | | CO | 39.08 | -- |
| 129 | Flare (Routine and MSS Annual Emissions Cap) Z-251 | VOC | -- | 7.04 |
| | | NOx | -- | 5.82 |
| | | CO | -- | 29.95 |
| | | PM | -- | 0.02 |
| | | PM10 | -- | 0.02 |
| | | PM2.5 | -- | 0.02 |
| | | SO2 | -- | 0.02 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| 134A | API Separator G-202B | VOC | 2.02 | 8.84 |
| 134AA | API Separator G-202A | VOC | 2.02 | 8.84 |
| 134B | Equalization Pond G-207 | VOC | 0.13 | 0.55 |
| 150 | Cooling Tower Z-104 | VOC | 0.63 | 2.76 |
| 150A | Cooling Tower Z-201 | VOC | 0.34 | 1.55 |
| | | PM | 0.20 | 2.04 |
| | | PM10 | 0.20 | 2.04 |
| | | PM2.5 | 0.20 | 2.04 |
| 1798-20 | Cooling Tower Z-1104 | VOC | 0.63 | 2.76 |
| SYS-910-1 | Electric Power Generator Engine SYS-910 | VOC | 1.35 | 0.59 |
| | | NOx | 16.59 | 7.26 |
| | | CO | 3.57 | 1.57 |
| | | PM | 1.18 | 0.52 |
| | | PM10 | 1.18 | 0.52 |
| | | PM2.5 | 1.18 | 0.52 |
| | | SO2 | 1.10 | 0.48 |
| P-142-1 | Stormwater Pump Engine P-142 | VOC | 0.41 | 0.18 |
| | | NOx | 5.05 | 2.21 |
| | | CO | 1.09 | 0.48 |
| | | PM | 0.36 | 0.16 |
| | | PM10 | 0.36 | 0.16 |
| | | PM2.5 | 0.36 | 0.16 |
| | | SO2 | 0.33 | 0.15 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| P-95A-1 | Stormwater Pump Engine P-95A | VOC | 0.31 | 0.01 |
| | | NOx | 3.88 | 0.16 |
| | | CO | 0.84 | 0.03 |
| | | PM | 0.28 | 0.01 |
| | | PM10 | 0.28 | 0.01 |
| | | PM2.5 | 0.28 | 0.01 |
| | | SO2 | 0.26 | 0.01 |
| P-95B-1 | Stormwater Pump Engine P-95B | VOC | 0.31 | 0.01 |
| | | NOx | 3.88 | 0.16 |
| | | CO | 0.84 | 0.03 |
| | | PM | 0.28 | 0.01 |
| | | PM10 | 0.28 | 0.01 |
| | | PM2.5 | 0.28 | 0.01 |
| | | SO2 | 0.26 | 0.01 |
| F-MSSNAO | MSS Fugitive Emissions F-MSSNAO | VOC | 4.65 | 2.57 |
| | | PM | 0.02 | 0.01 |
| | | PM10 | 0.02 | 0.01 |
| | | PM2.5 | 0.02 | 0.01 |
| TK-2806 | 1-Hexene Tank IFR Tank TK-2806 | VOC | 0.54 | 1.20 |
| TK-2807 | 1-Hexene Tank IFR Tank TK-2807 | VOC | 0.54 | 1.20 |
| TK-2808 | Intermediate Olefins Tank Fixed Roof Tank TK-2808 | VOC | 0.44 | 1.10 |
| TK-2805 | Cyclohexane (Diluent) Tank IFR Tank TK-2805 | VOC | 0.31 | 0.20 |
| LOAD-1 | Truck/Railcar Loading Fugitives LOAD-1 | VOC | 2.40 | 2.00 |

Emission Sources - Maximum Allowable Emission Rates

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|------------------------|--------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| TFE | Thin Film Evaporator TFE | VOC | 0.30 | 1.30 |
| F-1891 | Fugitives F-1891 | VOC | 1.20 | 5.30 |
| F-MSSHU | MSS Fugitives F-MSSHU | VOC | 19.50 | 0.08 |

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Compliance with this emission rate shall be demonstrated as provided for in Special Condition 7.
- (7) Compliance with this emission rate shall be demonstrated as provided for in Special Condition 10.K.
- (8) Compliance with this emission rate shall be demonstrated as provided for in Special Condition 8.

Date: January 30, 2015



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Chevron Phillips Chemical Company LP
Authorizing the Construction and Operation of
Authorize Purge Gas Stream Flaring
Located at Baytown, Harris County, Texas
Latitude 29° 49' 35" Longitude -94° 55' 10"

Permits: 135086 and N224

Issuance Date: May 13, 2016

Expiration Date: May 13, 2026

A handwritten signature in black ink, appearing to read "R. D. A. Hyle".

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling

facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]

6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled “Emission Sources--Maximum Allowable Emission Rates.” [30 TAC § 116.115(b)(2)(F)]¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to “air pollution” as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions
Permit No. 135086 and N224

EMISSION STANDARDS

1. This permit authorizes emissions from those points listed in the attached table entitled “Emission Sources - Maximum Allowable Emission Rates” (MAERT) and the facilities covered by this permit are authorized to emit subject to the emission rate limits on the MAERT and other requirements specified in the special conditions. The annual rates are based on any consecutive 12-month period unless otherwise noted.

Planned startup and shutdown emissions due to the activities identified in Special Condition 2 are authorized from facilities and emission points identified in Attachment A in other construction permits at the site, provided the facilities, activities, and emissions are compliant with the respective MAERT and special conditions.

2. This permit authorizes the emissions from the facilities identified in Attachment A for the planned maintenance, startup, and shutdown (MSS) activities for venting and control of purge gas streams summarized in the MSS Activity Summary (Attachment B) attached to this permit.

Transfer of materials through existing piping/fugitive components and additional planned MSS activities not identified in Attachments A or B, and the associated emissions, shall comply with the construction permits at the site for the identified units as follows:

| Unit Name | Flare | Associated Permit or Registration | Permit Version Date* | Fugitives Special Condition Nos. * | Planned MSS Special Condition Nos.* |
|-----------|---------|-----------------------------------|----------------------|------------------------------------|-------------------------------------|
| PEU-1792 | X-901 | 2462C | 7/17/2013 | 14-15, 20 | 16-17 |
| PEU-1796 | FS-541 | 19027 | 10/30/2015 | 20-22, 27 | 24-26, 28-29 |
| PEU-1799 | FS-9004 | 46305 | 7/18/2014 | 3-4 | (PBR §106.263) |
| NAO-1797 | Z-101 | 37063, N178 | 1/30/2015 | 11-13 | 21-26 |
| NAO-1798 | Z-1101 | | | | |
| HU-1891 | Z-251 | | | | |

**Special Condition references are included only for convenience and are unique to the permit version listed. If any permit in the above table is altered, revised, amended, or renewed, the substantive technical and administrative requirements for fugitive components and planned MSS must continue to be met.*

FEDERAL APPLICABILITY

3. The facilities and activities authorized under this permit shall comply with all applicable requirements of the U.S. Environmental Protection Agency (EPA) regulations as follows:
 - A. Standards of Performance for New Stationary Sources promulgated in Title 40 Code of Federal Regulations Part 60 (40 CFR Part 60):

SPECIAL CONDITIONS

Permit No. 135086, N224

Page 2

- (1) Subpart A, General Provisions.
 - (2) Subpart VV, Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which Construction, Reconstruction, or Modification Commenced After January 5, 1981, and on or Before November 7, 2006.
 - (3) Subpart DDD, Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry.
 - (4) Subpart NNN, Standards of Performance for Volatile Organic Compound (VOC) Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Distillation Operations.
 - (5) Subpart RRR, Standards of Performance for Volatile Organic Compound Emissions from Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes.
- B. National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63:
- (1) Subpart A, General Provisions.
 - (2) Subpart SS, National Emission Standards for Hazardous Air Pollutants: Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process.
 - (3) Subpart FFFF, National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

OPERATIONAL SPECIFICATIONS

4. For the purge gas stream routing scenarios identified in Attachment B, all streams shall be vented to flare as listed.
5. Flares shall be designed and operated in accordance with the following requirements:
 - A. The flare systems shall be designed such that the combined assist natural gas, waste stream, and purge gas streams to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity at all times when emissions may be vented to them.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

SPECIAL CONDITIONS

Permit No. 135086, N224

Page 3

- B. The flares shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple, infrared monitor, or ultraviolet monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications.
- C. The flares shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of steam assist to flares X-901, FS-541, Z-101, Z-1101, and Z-251 and air assist to flare FS-9004.
- D. The permit holder shall install a continuous flow monitor and composition analyzer that provide a record of the vent stream flow and composition (total VOC) to each flare. The flow monitor sensor and analyzer sample points shall be installed in the vent stream as near as possible to the flare inlet such that the total vent stream to the flare is measured and analyzed. Readings shall be taken at least once every 15 minutes and the average hourly values of the flow and composition shall be recorded each hour.
 - (1) The flow monitors shall be calibrated or have a calibration check performed on an annual basis to meet the following accuracy specifications: the flow monitor shall be $\pm 5.0\%$, temperature monitor shall be $\pm 2.0\%$ at absolute temperature, and pressure monitor shall be ± 5.0 mm Hg.
 - (2) Calibration of the composition analyzers shall follow the procedures and requirements of Section 10.0 of 40 CFR Part 60, Appendix B, Performance Specification 9, as amended through October 17, 2000 (65 FR 61744), except that the multi-point calibration procedure in Section 10.1 of Performance Specification 9 shall be performed at least once every calendar quarter instead of once every month, and the mid-level calibration check procedure in Section 10.2 of Performance Specification 9 shall be performed at least once every calendar week instead of once every 24 hours. The calibration gases used for calibration procedures shall be in accordance with Section 7.1 of Performance Specification 9. Net heating value of the gas combusted in the flare shall be calculated according to the equation given in 40 CFR §60.18(f)(3) as amended through October 17, 2000 (65 FR 61744).
 - (3) The monitors and analyzers shall operate as required by this section at least 95% of the time when the flare is operational, averaged over a rolling 12 month period consistent with applicable requirements contained in 30 TAC 115 Subchapter H. The percent measurement data availability shall be calculated as the total flare specific operating hours while quality assured data was recorded divided by the total flare specific operating hours. Time required for normal calibration checks is not considered downtime for purposes of this calculation. The average block hourly flared gas net heating value and actual exit velocity determined in accordance with 40 CFR §§60.18(f)(3) and 60.18(f)(4) shall be recorded at least once every hour based on 15 minute samples.
 - (4) Hourly mass emission rates shall be determined and recorded using the above readings and the emission factors used in the permit application.

COMPLIANCE ASSURANCE MONITORING

6. The following requirements apply to capture systems for all flares and planned MSS authorized by this permit:

A. The following requirements apply to the closed vent capture system which includes all equipment that contains, collects, and transports air pollutants from a source to the flares listed in Attachment A. To control pollutants other than particulate:

- (1) Conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system; or
- (2) Once a year, verify the capture system is leak-free by inspecting in accordance with 40 CFR Part 60, Appendix A, Test Method 21. Leaks shall be indicated by an instrument reading greater than or equal to 500 parts per million by volume (ppmv) above background; or,
- (3) Maintain the capture system under negative pressure at all times, verified and recorded weekly with a pressure measurement device.

For unsafe-to-inspect parts of a closed vent systems the applicant shall maintain a written plan, available at the site and upon request, for inspecting the equipment as frequently as practicable during safe-to-inspect conditions. The plan shall identify and explain the inherent dangers associated with of all parts of the closed vent system that are designated as unsafe. Inspection is not required more than once in any 12-month period.

B. If there is a bypass for the flares listed in Attachment A, comply with either of the following requirements:

All bypasses for the flares listed in Attachment A shall:

- (1) Install a flow indicator that records and verifies zero flow at least once every fifteen minutes immediately downstream of each valve that if opened would allow a vent stream to bypass the control device and be emitted, either directly or indirectly, to the atmosphere; or
- (2) Once a month, inspect the valves, verifying the position of the valves and the condition of the car seals prevent flow out the bypass.

A bypass does not include authorized analyzer vents, highpoint bleeder vents, low point drains, or rupture discs upstream of pressure relief valves if the pressure between the disc and relief valve is monitored and recorded at least weekly.

A deviation shall be reported if the monitoring or inspections indicate bypass of the control device when it is required to be in service per this permit.

C. Records of the required inspections shall be maintained. If the result of any of the inspections is not satisfactory, the permit holder shall promptly take necessary corrective action.

SPECIAL CONDITIONS

Permit No. 135086, N224

Page 5

RECORDKEEPING

7. Records shall be maintained indicating that the start and end times of each of the activities identified in Attachment B and documentation that the requirements of these special conditions and emission limitations have been satisfied. Total emissions should be summed for each activity using the flow and VOC analyzer data collected under Special Condition No. 5. Records shall be retained for no less than five (5) years.

OFFSETS

8. This Nonattainment New Source Review (NNSR) permit is issued/approved based on the requirement that the permit holder offset the project emission increase for facilities authorized by this permit prior to the commencement of operation, through participation in the TCEQ Emission Banking and Trading (EBT) Program in accordance with the rules in 30 TAC Chapter 101, Subchapter H, including time frames.
9. The permit holder shall use 44.7 tons per year (tpy) of VOC credits (Emission Reduction credits and/or Discrete Emission Reduction Credits) to offset the 34.4 tpy VOC project emission increase for the facilities authorized by this permit at a ratio of 1.3 to 1.0. The total amount of offsets are required during any calendar year when the permitted activities occur. No offsets are required for any calendar year when the permitted activities do not occur. Credits need to be provided and approved in advance of the activities.
10. Prior to the commencement of operation, the permit holder shall obtain approval from the TCEQ EBT Program for the credits being used and then submit a permit alteration or amendment request to the TCEQ Air Permits Division (and copy the TCEQ Regional Office) to identify approved credits by TCEQ credit certificate number.
11. In addition to, or in place of, using credits as described in Special Condition Number 8, the permit holder may use up to 44.7 tpy of Highly Reactive Volatile Organic Compounds Emission Cap and Trade (HECT) allowances to offset the 34.4 tpy VOC project emission increase for the following HECT facilities authorized by this permit at a ratio of 1.3 to 1.0:
 - A. FIN X-901 EPN 45
 - B. FIN FS-541, EPN 1796-10A
 - C. FIN FS-9004, EPN 1799-20
 - D. FIN Z-101, EPN 110
 - E. FIN Z-1101, EPN 1798-22
 - F. FIN Z-251, EPN 129

DATE: May 13, 2016

Permit 135086, N224
Attachment A
MSS FACILITIES SUMMARY

This permit authorizes planned MSS emissions from purge gases from the permanent site facilities identified below.

| Unit Name * / Facility Identification No. (FIN) | Associated Permit No. | Flare Identification | Flare FIN / Emission Point No. (EPN) |
|--|----------------------------------|---------------------------------|---|
| PEU-1792/P-1792 | 2462C | X-901 | X-901/45 |
| PEU-1796/P-1796 | 19027 | FS-541 | FS-541/1796-10A |
| PEU-1799/P-1799 | 46305 | FS-9004 | FS-9004/1799-20 |
| NAO-1797/P-1797 | 37063, N178 | Z-101 | Z-101/110 |
| NAO-1798/P-1798 | 37063, N178 | Z-1101 | Z-1101/1798-22 |
| HU-1891/P-1891 | 37063, N178 | Z-251 | Z-251/129 |

* Abbreviations:

PEU - Polyethylene Units

NAO - Normal Alpha Olefins Units

HU - 1-Hexene Unit

DATE: May 13, 2016

Permit 135086, N224
Attachment B
MSS ACTIVITIES SUMMARY

| Scenario No. | Description | Facilities | Vented/Control |
|---------------------|---|---|-------------------------|
| 1 | All unit purge gas streams vent to their specific unit flares | <i>See Attachment A</i> | <i>See Attachment A</i> |
| 2 | PEU all vent to designated flare | PEU-1792, PEU-1796, PEU-1799 | FS-541 |
| | NAO and HU vent to specific unit flares | <i>See Attachment A</i> | <i>See Attachment A</i> |
| 3 | PEU all vent to designated flare | PEU-1792, PEU-1796, PEU-1799 | X-901 |
| | NAO and HU vent to specific unit flares | <i>See Attachment A</i> | <i>See Attachment A</i> |
| 4 | One NAO vent to specific unit flare | NAO-1798 | Z-1101 |
| | All other units vent to designated flare | PEU-1792, PEU-1796, PEU-1799, NAO-1797, HU-1891 | Z-101 |

NOTE: The production units with purge gas streams will continue to operate normally and during the periods when purge gas streams are being flared as authorized by this permit.

DATE: May 13, 2016

Emission Sources - Maximum Allowable Emission Rates

Permit Number 135086 & N224

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates | |
|--|---|-----------------------------|----------------|---------|
| | | | lbs/hour (4) | TPY (5) |
| 1796-10A 1798-22 1799-20 45 110 129 | Flare Group (6) FS-541 Z-1101 FS-9004 X-901 Z-101 Z-251 | VOC | 135.62 | 34.33 |
| | | NO _x | 16.04 | 4.06 |
| | | CO | 103.91 | 26.30 |

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
- (2) Specific point source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
- (4) Compliance with hourly emission limits (pounds per hour) is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs.
- (5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period and is in addition to emissions authorized by Permit Nos. 2462C, 19027, 46305, and 37063 for the listed EPNs
- (6) Purge gas may be vented to a combination of one or more flares in the designated group as described in Special Conditions Attachment B and permit application representations.

Date: May 13, 2016